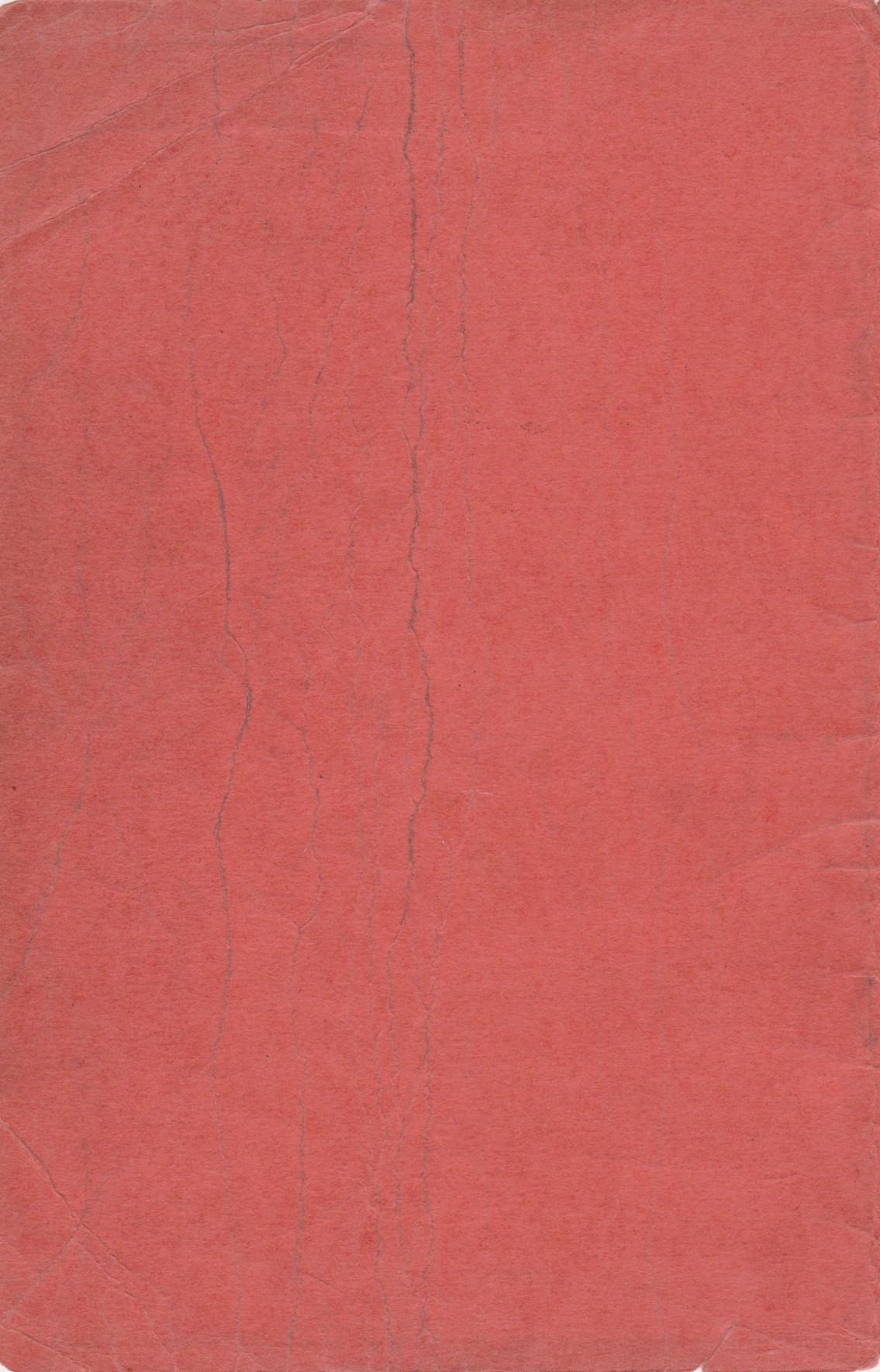


ADAMS & NELSON COMPANY

**PATTERNMAKERS
HAND TOOLS**



CATALOG No. 18



PATTERNMAKERS HAND TOOLS



CATALOG No. 18



ADAMS & NELSON COMPANY
(FOUNDED 1910)
4125 FULLERTON AVE.
Telephone ALBany 2767
CHICAGO

Introductory

The pattern trade uses a number of special tools not used by other tradesmen. They experience a great deal of difficulty in securing these tools, owing to the fact that compared with most other trades there are few patternmakers and the average hardware store or tool dealer can not afford to carry a full stock of special patternmakers' tools for the limited demand which he would have in any certain locality.

We have found that even in some of the largest patternmaking centers the patternmakers are compelled to go to five or six different stores in order to purchase a complete outfit of tools and in the smaller towns it is almost impossible to buy a complete set of tools as used by this trade.

For the past 25 years we have been catering exclusively to the pattern shops with our line of patternmakers' supplies and we have handled a few of the special tools, but the demands for a full assortment of tools have become so great that we have found it advisable to bring out this catalogue in which we have endeavored to show every tool that the patternmaker uses. By concentrating his tool purchases with us he is assured of getting the right tool for the right purpose and will save a great deal of money and time spent in shopping around for his requirements.

We have endeavored to stick as closely as possible to the highest quality of tools of standard makes, such as the "Stanley" line, and the "Starrett" line; except in the case of special tools, which are not made by the large manufacturers and which in many cases we have been compelled to have made up especially for us.

The quality of our tools is fully guaranteed and any defective tools may be returned at our expense and will either be replaced or money will be refunded.

TERMS

Our terms are cash with order, unless parties are known to us, or where references are satisfactory, in which case our terms are 2% in 10 days or 30 days net, F. O. B., Chicago.

All prices subject to change without notice.

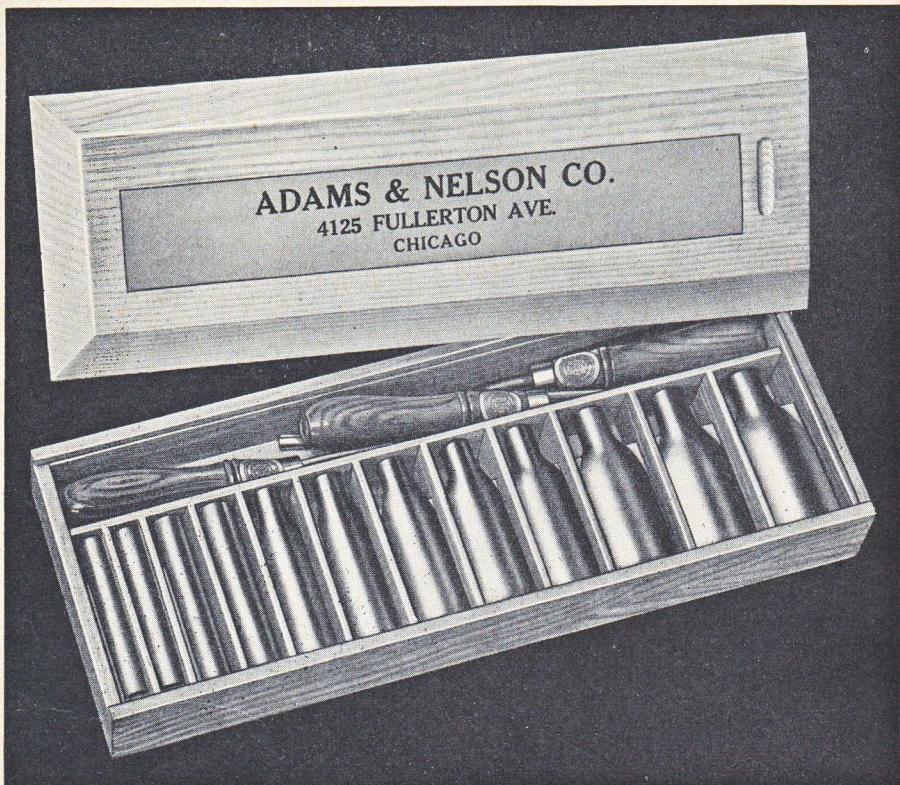
NEW TOOLS

for the

PATTERNMAKER



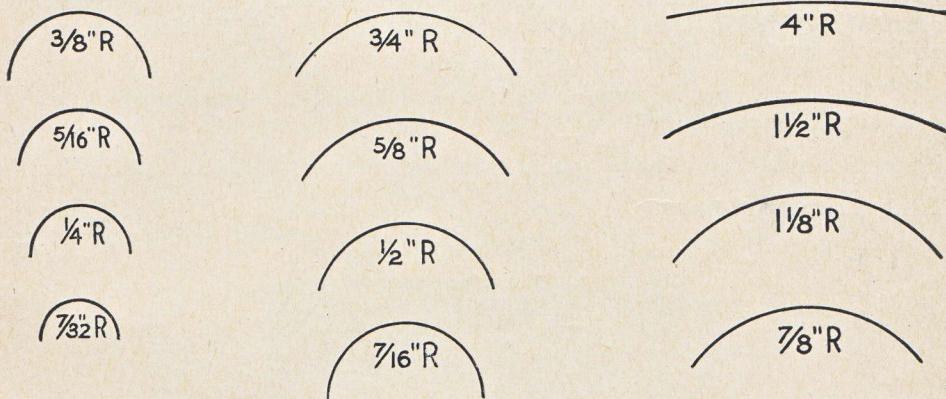
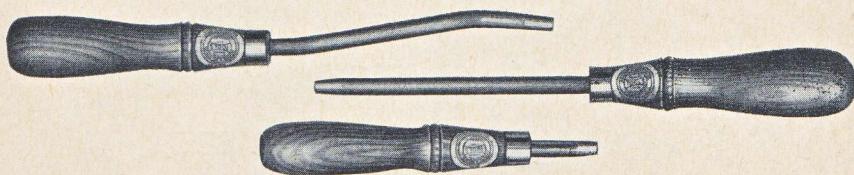
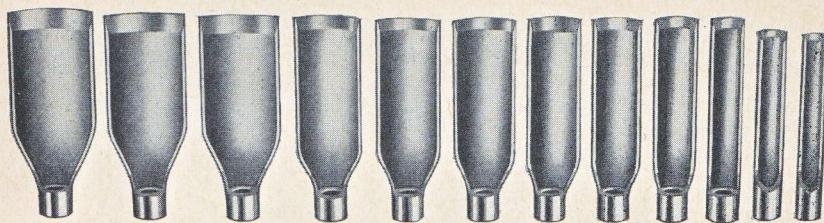
ADAMS & NELSON CO.
CHICAGO



No. 450 GOUGE SET

There has long been a demand among the pattern makers, for a set of gouges that have a true radius. With this thought in mind, we are placing on the market the set of gouges shown in the above illustration. These gouges are true to radius and will be found very handy for corebox work, gouging out fillets and other circular work on patterns.

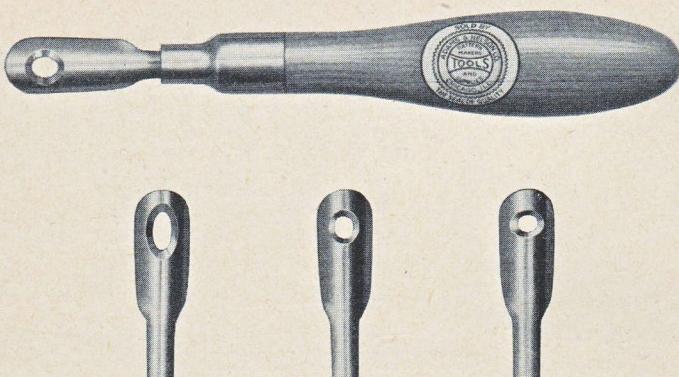
They are put up in a handy box 15" long by 6" wide and 1 $\frac{3}{4}$ " deep. There are three handles with the set and these handles fit any of the gouges. This makes a very compact outfit, handy to place in the tool kit, and no pattern-maker should be without a set of these gouges.



The illustration above shows the individual gouges and the exact radius of each gouge. You will note that there is a large variety of radius', which will enable the patternmaker to find many places for the use of these gouges.

The handles shown in the above illustration consist of a long straight shank, short straight shank and bent shank. With this assortment of handles there is hardly any pattern or corebox where the gouges cannot be used.

Price for complete set..... \$12.00 Net



No. 475 CORNER ROUNDER SET

We show in the above illustration a new Corner Rounder. This tool consists of a handle and four cutters. The cutters furnished in the regular set are $1/8"$, $3/16"$, $1/4"$ and $3/8"$ radius. We can furnish $1/16"$ radius and any radius up to $1"$ at a slight extra cost.

This new Corner Rounder is a real tool and allows the hand to be in the natural position when used.

Price with handle and four cutters as specified above.....	\$2.00 Net
Extra Cutters, each45 Net



You now can clean your shrink rules in a jiffy, with this composition eraser. It will remove rust, and other stains and make your rules easy to read. If it does not work to your entire satisfaction, it may be returned and your money will be refunded.

Price each	\$0.20 Net
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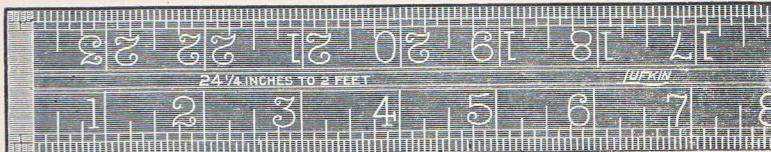
RUBBER SANDING BLOCK

Do not use an old wooden block for sanding. A rubber block is softer, and therefore your sand paper lasts longer. This rubber sanding block has one side curved and one straight side. It spells economy.

Price each	\$0.65 Net
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LUFKIN BOXWOOD SHRINK RULES

Two Foot. Brass Capped

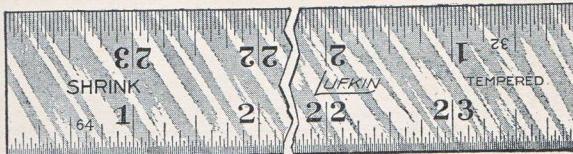


These Shrink Rules are of genuine boxwood, properly seasoned and well finished. They have clear-cut, black lines and figures, durable and easy to read. All are 2-foot rules, $1\frac{1}{2}$ " wide, $\frac{1}{8}$ " thick, and with ends brass capped.

Marked Both Sides, Both Edges;

One Side 8ths, Other Side 16ths Shrinkage Inch

No. 8203.....	Shrinkage $\frac{1}{16}$ " per foot	No. 8207.....	Shrinkage $\frac{1}{4}$ " per foot
No. 8205.....	Shrinkage $\frac{1}{8}$ " per foot	No. 8208.....	Shrinkage $\frac{5}{16}$ " per foot
No. 8206.....	Shrinkage $\frac{3}{16}$ " per foot	No. 8209.....	Shrinkage $\frac{3}{8}$ " per foot

LUFKIN STEEL SHRINK RULESMachine Divided. Approximate Thickness $3/64$ ths Inch

No. 4 Graduation: 8ths, 16ths, 32nds, 64ths Shrinkage Inch

Always Specify Length as Well as Stock Number

No.	Shrink Per Ft.	No.	Shrink Per Ft.	No.	Shrink Per Ft.
83A.....	$\frac{1}{16}$ "	83F.....	$\frac{3}{16}$ "	83R.....	$\frac{5}{32}$ "
83B.....	$\frac{1}{8}$ "	83G.....	$\frac{1}{4}$ "	83S.....	$\frac{7}{32}$ "
83C.....	$\frac{1}{4}$ "	83H.....	$\frac{5}{16}$ "	83T.....	$\frac{3}{8}$ "
83D.....	$\frac{3}{32}$ "	83J.....	$\frac{7}{16}$ "	83W.....	$\frac{11}{32}$ "
83E.....	$\frac{1}{8}$ "	83K.....	$\frac{3}{8}$ "	83Y.....	$\frac{13}{32}$ "
		83L.....	$\frac{1}{2}$ "		

Length 6-inch 12-inch 24-inch

Approximate width, inches $\frac{3}{4}$ 1 $1\frac{1}{4}$ **LUFKIN FLEXIBLE STEEL SHRINK RULES**Machine Divided. Approximate Thickness $1/64$ th Inch.

No. 10 Graduation: 32nds and 64ths Shrinkage Inch

(Graduated one side only, lower edge 64ths, upper edge 32nds.)

No.	Shrink Per Ft.	Length	Wt., Each	Width
2183E	$\frac{1}{8}$ "	6-inch only	1 oz.	$\frac{1}{2}$ "
2183F	$\frac{1}{16}$ "	6-inch only	1 oz.	$\frac{1}{2}$ "

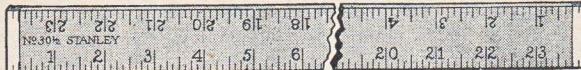
Average Shrinkage of Castings

Metal	Shrinkage Per Ft.	Metal	Shrinkage Per Ft.
Cast Iron	$\frac{1}{8}$ "	Aluminum	$\frac{3}{16}$ "
Malleable Iron	$\frac{1}{8}$ "	Copper	$\frac{3}{16}$ "
Steel	$\frac{1}{4}$ "	Lead	$\frac{5}{16}$ "
Brass	$\frac{3}{16}$ "	Zinc	$\frac{5}{16}$ "

STANLEY

Patternmakers' Boxwood Shrinkage Rules

Two Foot Length, 1½" Wide



C- $\frac{1}{10}$	Inch shrinkage per foot	K- $\frac{7}{32}$	Inch shrinkage per foot
D- $\frac{3}{32}$	Inch shrinkage per foot	G- $\frac{1}{4}$	Inch shrinkage per foot
E- $\frac{1}{8}$	Inch shrinkage per foot	L- $\frac{5}{16}$	Inch shrinkage per foot
H- $\frac{5}{32}$	Inch shrinkage per foot	M- $\frac{3}{8}$	Inch shrinkage per foot
F- $\frac{3}{16}$	Inch shrinkage per foot		

Graduated 8ths, 10ths, 12ths, 16ths of inches, or 8ths and 16ths only if so ordered.

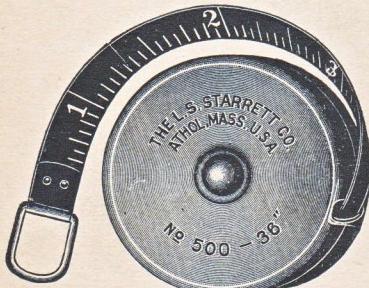
Starrett Steel Shrink Rules



These rules are spring-tempered. Made with No. 4 graduation, 8ths, 16ths, 32nds and 64ths.

No. 370—Shrink, $\frac{1}{8}$ to foot	No. 374—Shrink, $\frac{1}{10}$ to foot, 12" and 24" only
No. 372—Shrink, $\frac{1}{8}$ to foot, 6" only, flexible	No. 368 " $\frac{5}{16}$ " " " " "
No. 375—Brass Shrink, $\frac{1}{8}$ to foot	No. 369 " $\frac{3}{8}$ " " " " "
No. 376—Shrink, $\frac{7}{32}$ to foot, 12" only	No. 388 " $\frac{1}{2}$ " " " " "
No. 377—Double Shrink, $\frac{1}{4}$ to foot	No. 389 " $\frac{5}{32}$ " " " " "
No. 378—Shrink, $\frac{9}{32}$ to foot, 12" only	No. 393 " $\frac{7}{16}$ " " " " "

Pocket Steel Tapes No. 500



No. 500—These tapes are $\frac{1}{4}$ " wide, in well finished, nickel plated cases, with rounded edges. Spring wind with center stop. Graduated in inches and sixteenths of an inch.

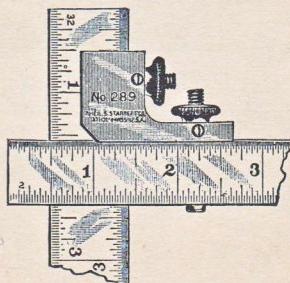
No. 500—36", 60", 72", 96" and 120".

No. 500F—The same as No. 500, except that they are graduated in feet, inches and sixteenths, quick reading.

No. 500F—3', 5', 6', 8' and 10'.

No. 289—Rule Clamp

The use of this attachment is so well shown by the illustration that a further description is hardly necessary. The attachment is made to fit the 12, 18 and 24" blades of our No. 11 square and can be used in connection with any of our regular rules as wide as one inch.



No. 289A—1 1/2" by 1-25/32".

No. 289B—2 5/8" by 2 3/8".

Spring-Tempered Steel Rules



Thickness: $\frac{3}{64}$ " or No. 18 gauge.

Approximate widths: Inches..... $\frac{9}{16}$ $\frac{5}{8}$ $\frac{3}{4}$ 1

Lengths: Inches 3 4 6 12

No. 300 has No. 4 graduation. Made in lengths 1" to 48" inc.

Flexible Steel Rules

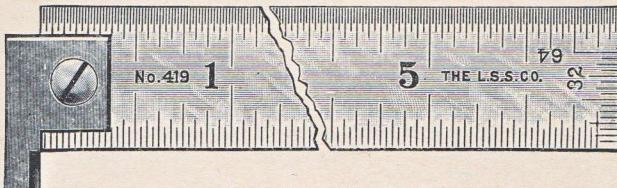


These are very thin, spring-tempered rules, nicely graduated on one side only. Those from 1" to 12" are $\frac{1}{16}$ " wide, and will easily conform to a 2" circle. Those from 18" to 48" are $\frac{3}{16}$ " wide, and are made from a trifle heavier stock.

Lengths: Inches 3 4 6 12

No. 320 No. 10 graduation. (32nds and 64ths.)

Hook Rules No. 419



Lengths: 6" and 12"

Narrow Hook Rules No. 422



Lengths: 4", 6" and 12".

Zig-Zag Rules



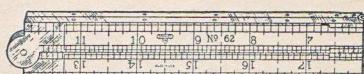
No. 806—Yellow, 6'.

No. 856—White, 6'.

Two Foot—Four Fold Boxwood Rules



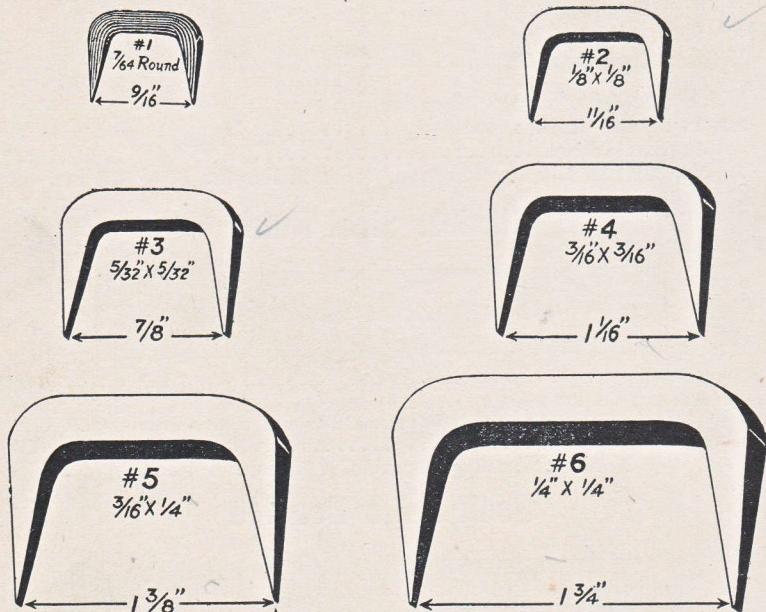
No. 61—Square Joint, Middle Plates, Graduated 8ths to 16ths Inches,



No. 62—Square Joint, Full Bound, Drafting Scales. Graduated 8ths, 10ths, 12ths, 16ths Inches.

A D N E L

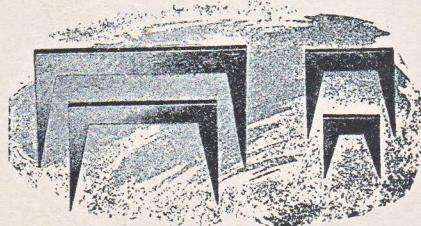
Hand Forged Steel Pinch Dogs



A hand forged steel pinch dog, very popular with the patternmaker. They are far superior to the malleable iron dogs and do not leave large holes in the pattern. Correct shape and easily withdrawn from the wood. Cut shows actual sizes and dimensions.

J O H N S O N

Hand Forged Steel Pinch Dogs



We highly recommend these Pinch Dogs, having used them in our own shop for many years. They are wonderfully perfect in every detail and are made on the correct principle, being easily drawn from the wood, leaving an extremely small hole to be filled.

Number.....	00	0	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4
Size of steel..	3/16sq.	1/4	1/4	1/4	1/4	1/4	5/16	5/16
Length.....	3/4	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$2\frac{3}{4}$	$3\&3\frac{1}{2}$

ADNEL FULL HALF ROUND GOUGES



Our full half round gouges are true to radius and the cuts of the radius shown above are full size. These gouges will come in very handy where the radius must be true.

No. 32—Long Firmer Paring Chisel

Straight Shank, Beveled Edges, Handled and Sharp.



The 1 inch is $8\frac{1}{2}$ inches long from the bolster

No. 15 $\frac{1}{4}$ —Long Firmer Paring Chisel

Bent Shank, Beveled Edges, Handled and Sharp.



No. 14—Long Firmer Paring Gouge

Straight Shank, Handled and Sharp.



The 1 inch is $8\frac{1}{2}$ inches long from the bolster

No. 15 $\frac{1}{2}$ —Long Firmer Paring Gouge

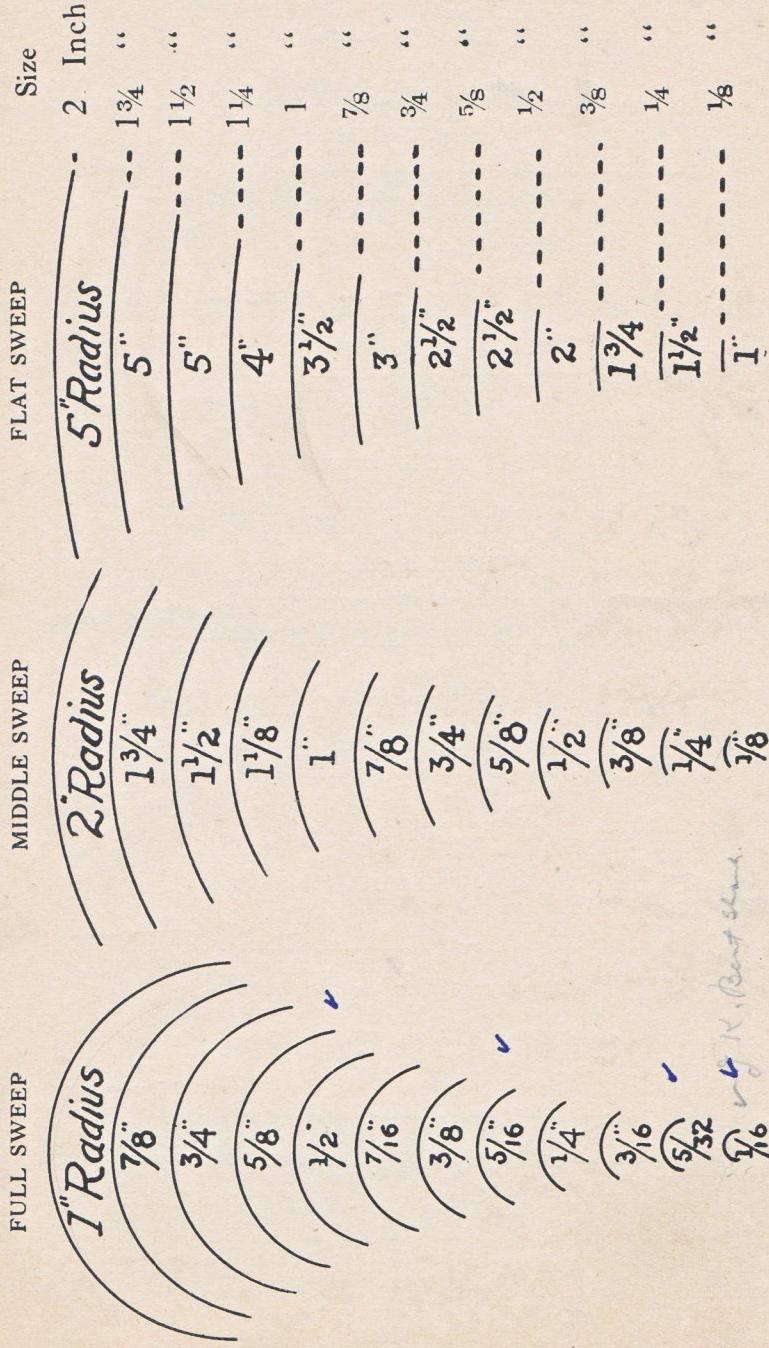
Bent Shank, Handled and Sharp.



All Paring Gouges are beveled inside. If ordered beveled outside, we charge 40 cents extra per dozen.

Any Tools selected to fit circles or impressions will be charged 35 per cent extra to the prices shown in Price List.

In Ordering Long Firmer Gouges the following Sketch will be found convenient.



NOTE:—When ordering gouges give width and sweep.
DO NOT ORDER BY RADIUS

No. 17—Turning Gouge

Without Handles



The 1" is 10 $\frac{1}{4}$ " overall.

No. 18—Parting Tool

Without Handles



Sizes $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ ".

No. 16—Double Bevel Skew Turning Chisel

Without Handles



The 1" is 10 $\frac{1}{4}$ " overall.

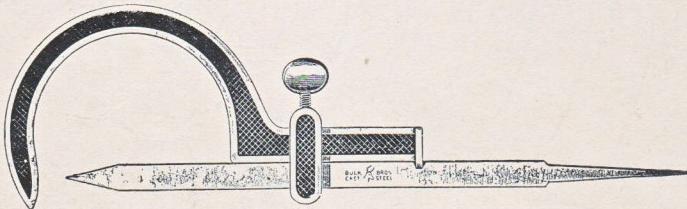
No. 112A—Hustlers Turning Chisel

Without Handles



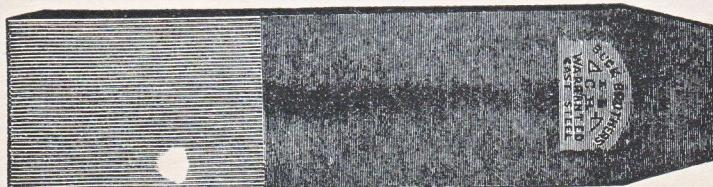
No. 25—Wood Turner's Sizing Tool

Without Handles



Made in one size only to open 4 inches.

No. 63—Tooth Plane Iron



2 $\frac{3}{8}$ " Wide.

SPECIAL POINT TURNING CHISELSNo. 19A
Right SkewNo. 19B
Left SkewNo. 19C
Spear PointNo. 19D
Round PointNo. 19E
Square Point**No. 98—Carving Tool Handles**

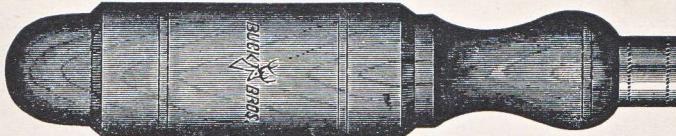
Applewood Carving Tool Handles, cast brass ferrules.

No. 99—Long Handles for Turning Tools

9 to 10" in length.

For use on Tools Nos. 16, 17, 21, 22, 23, 24.

Ferrules	$\frac{9}{16}$ "	$\frac{5}{8}$ "	$\frac{11}{16}$ "	$\frac{13}{16}$ "	$\frac{45}{16}$ "	1"	$1\frac{1}{16}$ "
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No. 93—Fancy Style Chisel Handles

Ferrules	$\frac{1}{2}$ "	$\frac{9}{16}$ "	$\frac{11}{16}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	$\frac{15}{16}$ "	1"
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No. 92—Shank Firmer Gouge Handles

Ferrules	$\frac{1}{2}$ "	$\frac{9}{16}$ "	$\frac{11}{16}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	$\frac{15}{16}$ "	1"
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ADAMS & NELSON CO.

CARVING TOOLS

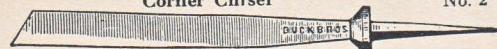
Firmer Chisel

No. 1



Corner Chisel

No. 2



Straight Gouges

No. 3



No. 4



No. 5



No. 6



No. 7



No. 8



No. 9



No. 10



No. 11



Bent Gouges

No. 12



No. 13



No. 14



No. 15



No. 16



No. 17



Made in sizes 1/16" to
1" by 8ths and 1" to 2"
by 4ths.

Made in sizes 1/16" to
1" by 8ths and 1" to 1½"
by 4ths.

ADAMS & NELSON CO.

CARVING TOOLS

Bent Gouges

No. 18



No. 19

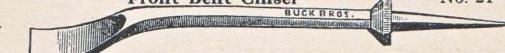


No. 20



Front Bent Chisel

No. 21



Right Skew

No. 22



Left Skew

No. 23



Front Bent Gouges

No. 24



No. 25



No. 26



No. 27



No. 28



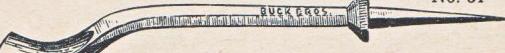
No. 29



No. 30



No. 31



No. 32



Made in sizes 1/16" to
1" by 8ths and 1" to 1½"
by 4ths.

CARVING TOOLS

Back Bent Gouges

No. 33



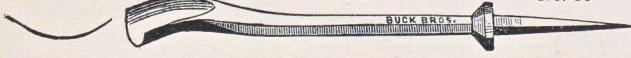
No. 34



No. 35



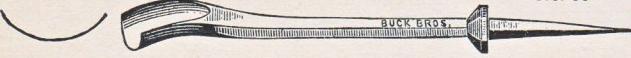
No. 36



No. 37



No. 38



Parting Tools

No. 39



No. 40



No. 41



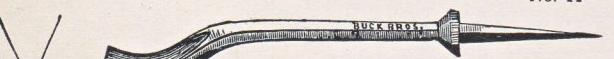
No. 42



No. 43



No. 44



No. 45



No. 46



Made in sizes 1/16" to
1" by 8ths.

**CHART OF SIZES AND SWEEPS (CUTTING EDGES) OF
WOOD CARVING TOOLS AS ILLUSTRATED ON OPPOSITE PAGE.**

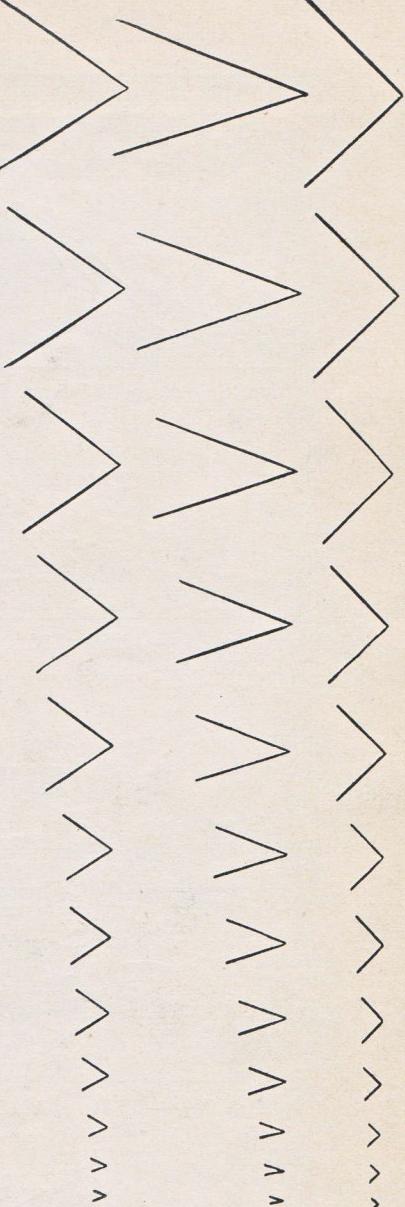
Sizes of Chisels Nos. 1, 2, 21, 22, 23 and 50 are not shown.

Straight Gouges.	Bent Gouges.	Spoon-bit Gouges.	Back-bent Gouges.	1-inch.
Nos.	Nos.	Nos.	Nos.	
3	12	24	33	$\frac{1}{16}$
4	13	25	34	$\frac{3}{16}$
5	14	26	35	$\frac{5}{16}$
6	15	27	36	$\frac{1}{4}$
7	16	28	37	$\frac{3}{8}$
8	17	29	38	$\frac{1}{2}$
9	18	30		$\frac{5}{8}$
10	19	31		$\frac{3}{4}$
11	20	32		$\frac{7}{8}$
				1-inch.
Straight V Tool.		Spoon-bit V Tool.		
Nos.		Nos.		
39		40		
41	42	44		
45				

Spoon-bit
V Tool.
Nos.
39 40

Curved
V Tool.
Nos.
41 42

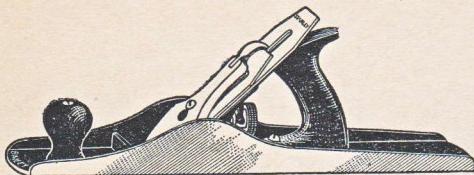
Spoon-bit
V Tool.
Nos.
43



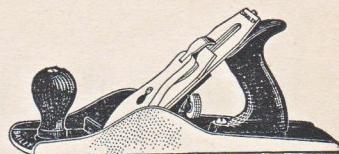
This chart illustrates the various sizes and sweeps that make up carving tool cutting edges.

STANLEY "BAILEY" ADJUSTABLE IRON PLANES

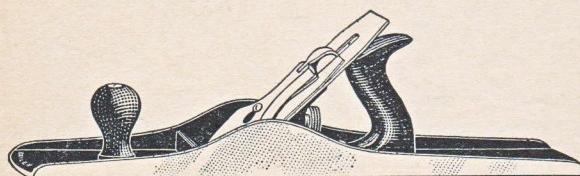
Furnished with either Smooth or Corrugated Bottom.



No. 6 — Fore, 18" long, 2 $\frac{3}{8}$ " Cutter.

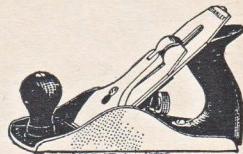


No. 5 — Jack, 14" long, 2" Cutter.



No. 7 — Jointer, 22" long, 2 $\frac{3}{8}$ " Cutter.

No. 8 — Jointer, 24" long, 2 $\frac{5}{8}$ " Cutter.



No. 4 — 9" long, 2" Cutter.

ADJUSTABLE BLOCK PLANES

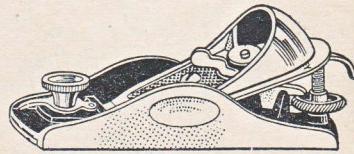
The Cutter rests on its seat at an angle of 20 degrees, and is adjustable endwise and sidewise. The Throat is adjustable for coarse or fine work. All have the "Handy" Grip.

Japanned Trimmings



No. 9 1/2 — 6" long, 1 $\frac{5}{8}$ " Cutter.

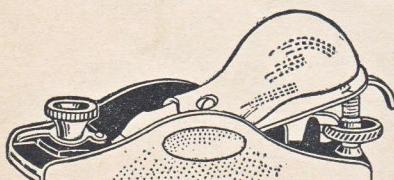
Nickel Trimmings



No. 16 — 6" long, 1 $\frac{5}{8}$ " Cutter.

Knuckle Joint Lever

Fitted with a new and patented form of lever or cap called "knuckle joint," which, being entirely of steel, is practically indestructible.



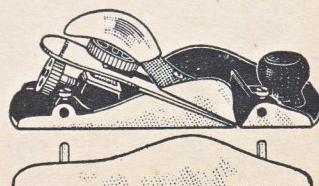
No. 18 — 6" long, 1 $\frac{5}{8}$ " Cutter.

Block and Rabbet

A detachable side changes it from a Block Plane to a Rabbet Plane. The Skew Cutter is adjustable endwise.

The Sides and Bottoms are ground and milled true.

Rosewood Knob. Nickel Plated Trimmings.

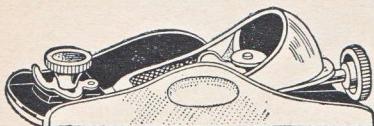


No. 140 — 7" long, 1 $\frac{5}{8}$ " Cutter.

LOW ANGLE BLOCK PLANES

The cutters are adjustable endwise by means of the adjusting wheel at the rear of the plane. In these planes the cutter rests on its seat at an angle of only 12 degrees, which permits of great ease in working across the grain on hard woods.

Adjustable Throat



No. 60 — 6" long, 1 $\frac{1}{8}$ " Cutter.

Adjustable Throat

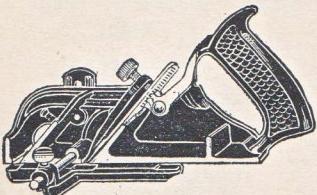
"Knuckle Joint" Lever



No. 65 — 7" long, 1 $\frac{1}{8}$ " Cutter.

Duplex Rabbet and Filletster Planes

They have two seats for the cutter, one for regular and the other for bull-nose work. Also a spur and a removable depth gauge. The adjustable fence can be used on either side of the Plane and slides under the bottom for regulating the width of the cut. The rear cutter is adjustable endwise.



No. 78 — 8 $\frac{1}{2}$ " long, 1 $\frac{1}{2}$ " Cutter.

Handled Iron Rabbet Planes

These planes will lie flat on either side and can be used with right or left hand while planing into corners or up against perpendicular surfaces.

They are fitted with a spur and a detachable depth gauge.



No. 190 — 8" long, 1 $\frac{1}{4}$ " Cutter.

No. 191 — 8" long, 1 $\frac{1}{4}$ " Cutter.

No. 192 — 8" long, 1" Cutter.

SPECIAL RABBET PLANES

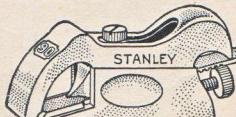
These planes will lie perfectly flat on either side, and can be worked either right or left hand. Have adjustable throats and "Handy" grip. The cutters are adjustable endwise. By removing the front a chisel plane is obtained.



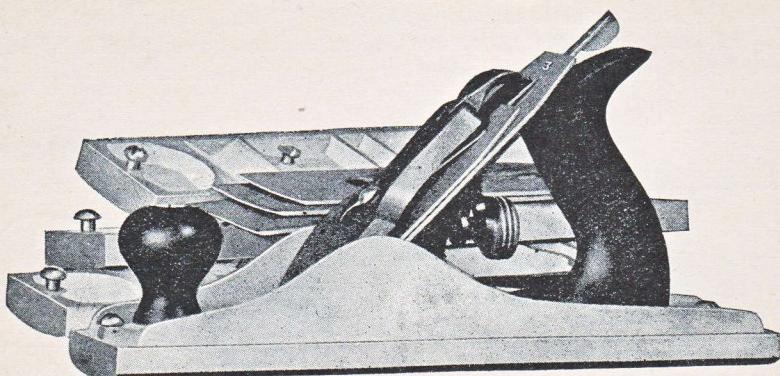
No. 92 — 5 $\frac{1}{2}$ " long, $\frac{3}{4}$ " Cutter,
Nickel Plated.

No. 93 — 6 $\frac{1}{2}$ " long, 1" Cutter,
Nickel Plated.

No. 94 — 7 $\frac{1}{2}$ " long, 1 $\frac{1}{4}$ " Cutter,
Nickel Plated.

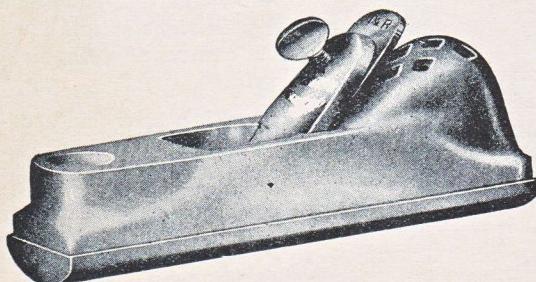


No. 90 — 4" long, 1" Cutter,
Nickel Plated.

ALUMINUM SOLE PLANE

No. 38

$1\frac{3}{4}$ " size for $1\frac{1}{4}$ " double blades, and all adjustments, soles $11\frac{1}{4}$ " long, and for 3", 5", 10" and 20" rad. Furnished complete with 4 soles and 4 blades.

Aluminum Sole Plane

No. 39 — SOLE PLANE

All Aluminum Type

Length of soles.....8"

Width of blades..... $1\frac{5}{16}$ "

Radius of soles we can supply: $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2, $2\frac{1}{2}$, 3, 4, 5, 6, 8, 10" and flat bottom soles for flat work.

Router Plane

Because of its small size it is useful on very narrow work for pattern and Cabinet Makers, also Carpenters in letting in lock plates, etc. It is so constructed that either a closed throat for regular work or open throat for bull nose work, can be had. By reversing cutter it can be used as a depth gauge.



No. 271 — 3" long, Nickel Plated, $\frac{1}{4}$ " Cutter. Case hardened Thumb Screw.

Rabbet Planes**RIGHT HAND**

No. 98

No. 98 — Right Hand, 4" long, $\frac{1}{2}$ " Cutter, Rosewood Knob, Nickel Plated.

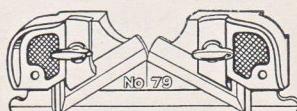
LEFT HAND

No. 99

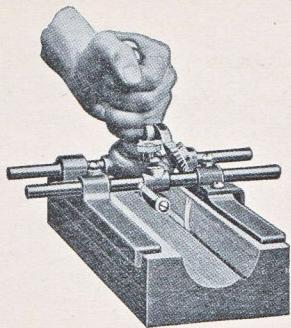
No. 99 — Left Hand, 4" long, $\frac{1}{2}$ " Cutter, Rosewood Knob, Nickel Plated.

Side Rabbet Plane

A convenient plane for side rabbeting, in trimming dados, mouldings and grooves of all sorts. A reversible nose-piece allows it to be worked up into close corners when required.



No. 79 — $5\frac{1}{2}$ " long, $\frac{1}{2}$ " Cutters. Nickel Plated.

No. 35—BAYLEY AUTOMATIC CORE BOX PLANE

A handy tool that fills a real demand. Useful on long boxes as well as on short ones. Cuts an accurate half circle of any desired size between $\frac{3}{4}$ and 6 inches. Cutter revolves automatically with each forward movement of operator. Made of steel and cast iron, all working parts being carefully machined.

No. 100 $\frac{1}{2}$ —ROUND BOTTOM PLANE

SIDE VIEW

This illustrates the 9" radius of the bottom. Bottom is 3" long.

No.	Length (Inches)	Width of Cutter (Inches)
100 $\frac{1}{2}$	3	1

Non-Adjustable — Flat Bottom

Handy, little Planes.

Sides and Trimmings Japanned. No. 100 has an Iron Handle.



No. 100



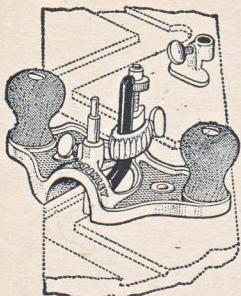
No. 101

No. 100..... $3\frac{1}{2}$ " Long, 1" Cutter

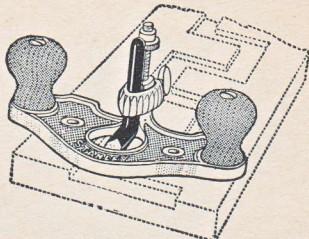
No. 101..... $3\frac{1}{2}$ " Long, 1" Cutter

ROUTER PLANES

Open Throat



Closed Throat



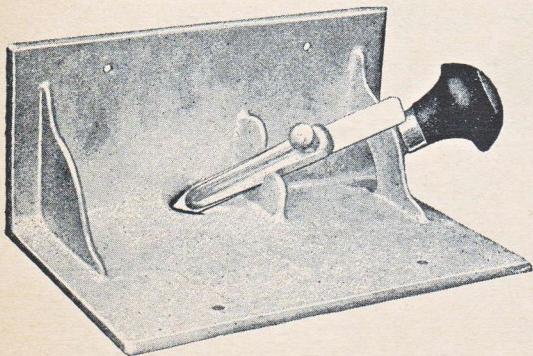
No. 71½—7½" long. Nickel plated.

No. 71—With attachment for closing the throat, for use on narrow surface and regulating depth of cut. 7½" long. Nickel plated.

CORE BOX PLANES

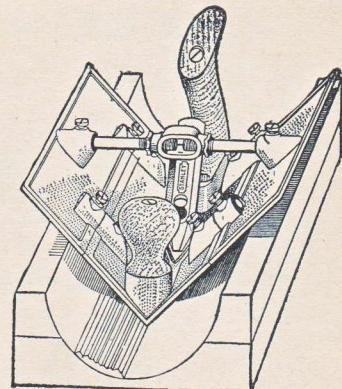
No. 34

Aluminum Core Box Planes

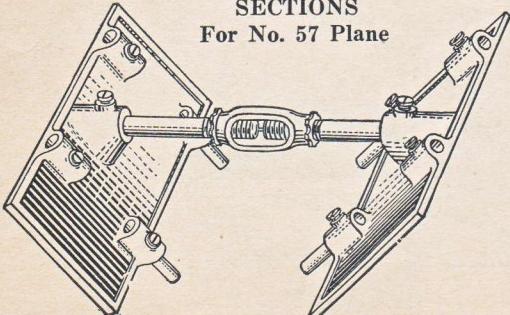


Length about.....8"
Width of sides.....3½ and 5"

For core boxes up to 4½" diameter without extra side pieces. Provided with screw holes, so that wood side pieces or wings can be attached for large diameter core boxes.



No. 57—With one pair of Sections, to work semi-circles 1 to 5", 10" long, ¾". Cutter, nickel plated, beech handle and knob.

SECTIONS
For No. 57 Plane

Additional Sections with adjusting rods, by means of which the sides can be made square and held firmly in position, can be supplied, each extra pair adding 2½" to the diameter of the semi-circle that can be worked.

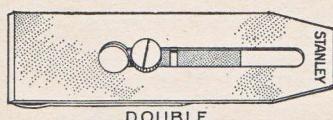
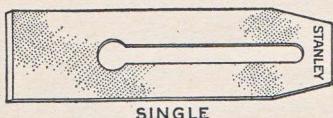
No. 2—To work semi-circles, 5 to 7½"
No. 3—To work semi-circles 7½ to 10"

In ordering give number of Sections wanted. If no number is given on order, No. 2 will be sent.

LIST OF PLANE IRONS

It will be noted that in many cases the same Single Iron fits a number of different Planes, but the Cap Iron (which combined with the Single Iron makes the Double Iron), is not the same on the Iron, Wood and Circular Planes and consequently is not interchangeable. In ordering, it is necessary to give the number of the Plane, size of Iron and state whether Single or Double Iron is required.

For "Bed Rock" and "Bailey" Iron and Wood Planes



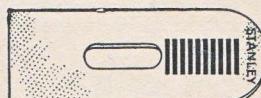
Size

- $1\frac{1}{4}$ "—For Plane No. 1.
- $1\frac{5}{8}$ "—For Plane Nos. 2, 602.
- $1\frac{3}{4}$ "—For Plane Nos. 3, 3C, 20, 22, 25, 113, 603, 603C.
- 2 "<—For Plane Nos. 4, 4C, 5, 5C, 9, 24, 26, 35, 604, 604C, 605, 605C.
- $2\frac{1}{8}$ "—For Plane Nos. 10, 10 $\frac{1}{4}$, 10 $\frac{1}{2}$.
- $2\frac{1}{4}$ "—For Plane Nos. 5 $\frac{1}{2}$, 5 $\frac{1}{2}$ C, 27 $\frac{1}{2}$, 605 $\frac{1}{2}$, 605 $\frac{1}{2}$ C.
- $2\frac{3}{8}$ "—For Plane Nos. 4 $\frac{1}{2}$, 4 $\frac{1}{2}$ C, 6, 6C, 7, 7C, 11, 28, 31, 36, 604 $\frac{1}{2}$, 604 $\frac{1}{2}$ C, 606, 606C, 607, 607C.
- $2\frac{5}{8}$ "—For Plane Nos. 8, 8C, 32, 37, 608, 608C.

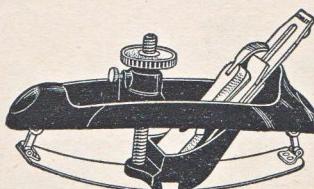
For Stanley and "Bailey" Block Planes

Size

- 1"—For Plane Nos. 100, 101.
- $1\frac{3}{8}$ "—For Plane Nos. 60, 60 $\frac{1}{2}$, 61, 203.
- $1\frac{3}{8}$ "—For Plane Nos. 102, 103.
- $1\frac{5}{8}$ "—For Plane Nos. 9 $\frac{1}{2}$, 9 $\frac{3}{4}$, 15, 15 $\frac{1}{2}$, 16, 17, 18, 19, 63, 65, 65 $\frac{1}{2}$, 120, 131, 220.
- $1\frac{5}{8}$ "—For Plane Nos. 110, 130.
- $1\frac{3}{4}$ "—For Plane No. 140.
- 2 "<—For Plane Nos. 62, 64.
- 2 "<—For Plane No. 64 Special.



Victor Adjustable Circular Planes



No. 20—10" long, $1\frac{3}{4}$ " cutter, Japanned.

The face is fastened at each end to the Plane body and adjusted by a screw at the center. This construction gives great strength.

These planes have adjustable flexible steel faces for planing the inside or outside of circles. Cutters adjustable endwise and sidewise.

IRON HANDLE SPOKE SHAVES



No. 63—Convex Bottom, 9" long, 1 $\frac{3}{4}$ " Cutter.



No. 64—Straight Bottom, 9" long, 1 $\frac{3}{4}$ " Cutter.

Double Iron, Improved

They have a cutter and cap iron, fastened by a thumb screw, in such a manner as to bring an even pressure on the cutter edge, and at the same time allow adjustment without the use of a screw driver.



No. 51—Raised Handle, 10" long, 2 $\frac{1}{8}$ " Cutter.

Adjustable Mouth

By means of a thumb screw the mouth can be opened or closed as coarse or fine work may be required.



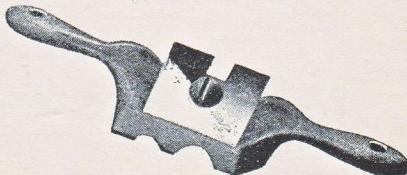
No. 53—Raised Handle, 10" long, 2 $\frac{1}{8}$ " Cutter.

No. 2G

Corner Rounding Spoke Shaves

Made with two grooves for rounding off sharp corners to two sizes. Made of brass, nickel plated.

Length over all.....3 $\frac{3}{4}$ "



No. 151—Raised Handle, 10" long, 2 $\frac{1}{8}$ " Cutter.

ENGLISH BOXWOOD SPOKESHAVES

No. 80 Round and Straight Bottom Spoke Shaves



Boxwood

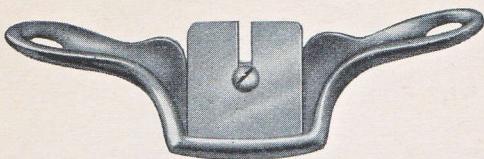
1 "	Cutter.....	6"	overall
1 $\frac{1}{4}$ " Cutter.....		6"	overall
1 $\frac{1}{2}$ " Cutter.....		8"	overall
1 $\frac{3}{4}$ " Cutter.....		8"	overall
2 "	Cutter.....	9"	overall

No. 81 Radius Spokeshaves



Blade length..	1	1	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2
Shave length..	5	5	5	7	7	7	8 $\frac{1}{2}$
Radius	1	2	3	1	2	3	3

SPOKE SHAVES



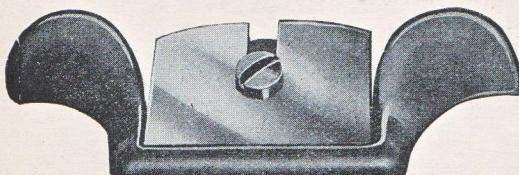
No. 1207



No. 1202F



No. 1202R



No. 1203

Following are three special spoke shaves made with bottoms rounding both from front to back and from right to left. Intended for hollow work such as elbow core-boxes; core-boxes for centrifugal pumps, and many other purposes of this character.

1207A—Small Size, No. 1

Length overall $3\frac{3}{8}$ "

Width of blade..... $\frac{7}{8}$ "

Bottoms rounded to about
 $4\frac{1}{2}$ " circle.

1207B—Medium Size, No. 2

Length overall $5\frac{1}{4}$ "

Width of blade..... $1\frac{1}{4}$ "

Bottoms rounded to about
 $6\frac{1}{2}$ " circle.

1207C—Large Size, No. 3

Length overall $6\frac{1}{2}$ "

Width of blade..... 2 "

Bottoms rounded to about
 $10\frac{1}{2}$ " circle.

1202-F—Flat Bottom Small Spoke Shave.

1202-R—Round Bottom Small Spoke Shave.

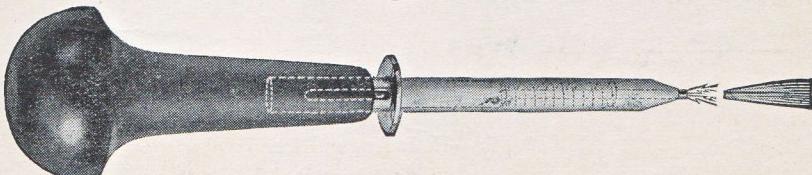
Made of brass nickel plated. A very handy tool for the patternmaker. Length overall $3\frac{3}{4}$ ", with a $13/16$ " wide blade.

1203-F—Flat Bottom Short Handle Spoke Shave.

1203-R—Round Bottom Short Handle Spoke Shave.

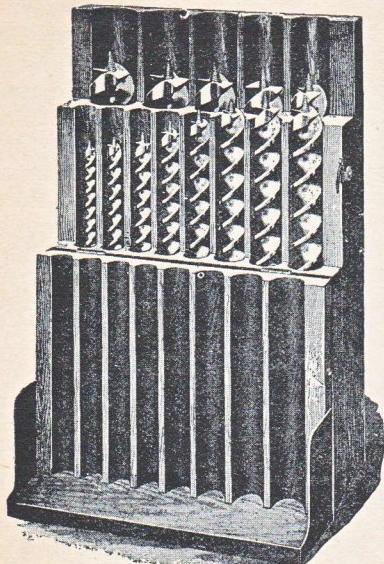
Made of brass nickel plated. This spoke shave has a handy comfortable grip. Length overall $2\frac{3}{4}$ ". Furnished with $\frac{7}{8}$ " or $1\frac{3}{16}$ " cutter.

No. 500—Magnetic Brad Set

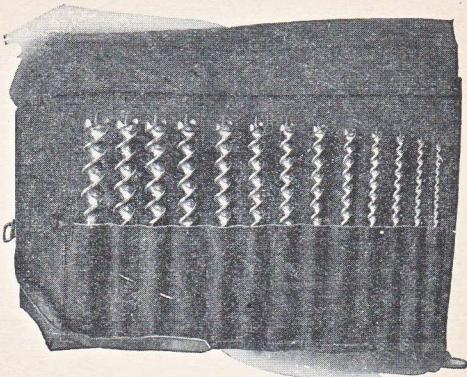


One that will not demagnetize. Has spring return. A very convenient tool for running fillets in the bottom of deep core boxes and similar work where it is hard to get at with a hammer.

Greenlee Extension Lip Auger Bits In Sets



No. 12—Set in Handy Box.



No. 12—Set in Canvas Roll.

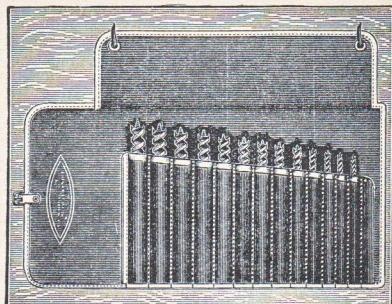


No. 12—Extension Lip Auger Bit.



No. 22—Solid Center Auger Bit.

Russell Jennings Auger Bits In Sets

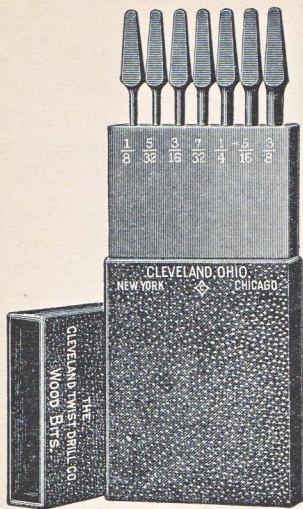


$\frac{1}{4}$ to 1".....Wood case $\frac{1}{4}$ " to 1".....Canvas roll

No. 70—R. J. Auger Bits.



Made in sizes $3/16$ " to $1\frac{1}{4}$ " by 16ths.

TWIST DRILLS IN SETS

Wood Pocket Case, $\frac{7}{8} \times 3\frac{1}{2} \times 8\frac{3}{4}$ ", cloth covered in imitation leather, one each 4-32, 5-32, 6-32, 7-32, 8-32, 10-32 and 12-32".

Set No. 13B

FORSTNER AUGER BITS
 BRACE BIT MACHINE BIT


Made in sizes $\frac{1}{4}$ " to $1\frac{1}{2}$ " by 16ths and $1\frac{1}{2}$ to 2" by 8ths.

Made in both machine shank and brace shank.

The Forstner Labor-Saving Auger Bit, unlike other bits, is guided by its Circular Rim instead of its center, consequently it will bore any arc of a circle, and can be guided in any direction regardless of grain or knots, leaving a true, polished surface.

**AUGER BIT FILES****No. 1—For Auger Bits of All Sizes**

This file is made especially for the purpose, and will do quick work without danger of ruining the lip.

No. 1—7", double ender, one end having flat file with smooth edges, the other being smooth with file edges.

CLARK'S PATTERN, EXPANSIVE AUGER BITS**Samson Expansive Bits**

Great care is taken to make these bits right in every detail, and each one has to stand a careful test. They are forged from best steel. The shank has a graduated scale for determining the length of bore. Cutters are interchangeable, with all properly made Clark Pattern Sets.

No. 50—Small size, with cutters Nos. 01 and 02. Shanks graduated 2 to 5"

Extra Cutters, Nos..... 01 02 03 04
 Will cut inches..... $\frac{1}{2}$ to $\frac{7}{8}$ $\frac{7}{8}$ to $1\frac{1}{2}$ $\frac{7}{8}$ to $1\frac{3}{4}$ $1\frac{3}{4}$ to 3

No. 100—Large size, with cutters Nos. 03 and 04.

Shanks graduated 3 to 7"

No. 122-A—Machine Bit for Wood



The No. 122-A Bit is made in sizes from $\frac{1}{8}$ " to $1\frac{1}{4}$ " by 32nd. Lengths from $5\frac{1}{8}$ " to $9\frac{7}{8}$ ". All sizes have $\frac{1}{2}$ " diameter shank.

No. 122—Machine Bit for Wood



The No. 122 Bit is made in sizes from $\frac{1}{8}$ " to $1\frac{1}{4}$ " by 32nd. Lengths 3" to $12\frac{1}{2}$ ". All sizes have straight shank which is the same diameter as the bit.

No. 114-A—Brace Bit for Wood



The No. 114-A is made in sizes $1/16$ " to $\frac{3}{8}$ " by 32nd. Lengths $3\frac{1}{2}$ " to 8".

No. 114—Brace Drill for Metal or Wood

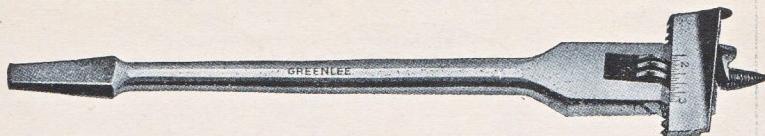


The No. 114 is made in sizes from $1/16$ " to $1\frac{1}{4}$ " by 32nd. Lengths from $3\frac{3}{8}$ " to $7\frac{1}{2}$ ".

No. 108—Straight Shank Drills



The No. 108 Drill is furnished in sizes from $1/64$ " to $\frac{1}{2}$ " by 64ths. This drill has a round shank and can be used in either a hand drill or brace. It will work equally as well in metal as in wood.

GREENLEE SETFAST EXPANSIVE BITS Nos. 5 & 6

The Setfast Bit is a brand new idea and has a novel means of adjusting the cutter and locking the parts. The cutters and adjusting barrel are fitted with 8 pitch square thread and this permits very rapid setting to size. The parts of this tool are locked by the action of the eccentric pin in the side of the body which engages the adjusting barrel causing pressing against the cutter. A quarter turn with the thumb tightens or loosens the parts. This tool will bore $\frac{3}{8}$ to 3" with standard cutters.

No. 149 — Multi-Spur Machine Bit

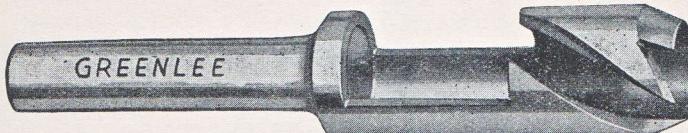
(Patented January 10, 1928)



The Greenlee Multi-Spur Machine Bit was designed to meet the need for an easy, smooth-boring bit. Stock is carried in sizes from $\frac{3}{8}$ to 2".

No. 140 — Single-Spiral Plug Cutter

(Patent applied for)



Greenlee No. 140 Single-Spiral Plug Cutter is made with a barrel 2 $\frac{3}{8}$ " long with standard $\frac{1}{2}'' \times 2''$ shank. It is possible with this tool to cut cross or end-grain plugs up to 2" in length, and cross-grain plugs can be cleared through the 1 $\frac{1}{8}$ " opening, up to 1" in thickness.

Greenlee Countersinks for Wood

No. 702 "S" Countersink

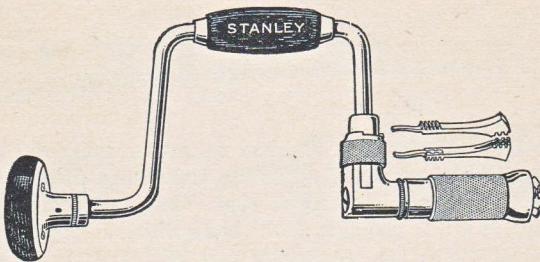


No. 703 Rose Countersink

STANLEY RATCHET BIT BRACES

No. 919

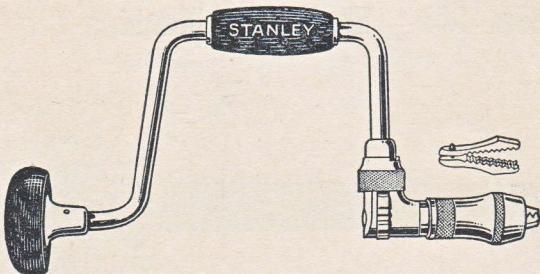
- 8" Sweep
10" Sweep
12" Sweep
14" Sweep



Nickel Plated

Open Ratchet

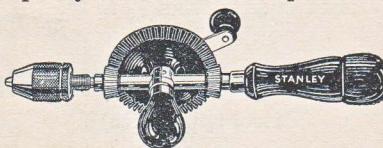
Nickel Plated,
Alligator Jaws,
Hardwood Head
and Handle.



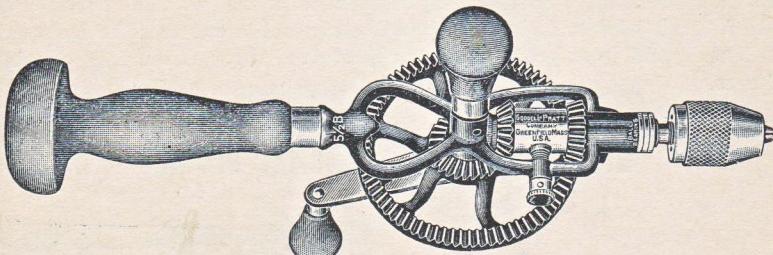
No. 965N

- 8" Sweep
10" Sweep
12" Sweep

No. 1616
Capacity 0 to $\frac{1}{4}$ ". 3 $\frac{1}{4}$ " Speed Gear.

No. 1616—Length, 12 $\frac{3}{8}$ "

No. 1616 Has Hollow Handle, $\frac{1}{4}$ " Chuck Capacity and 3 $\frac{1}{2}$ " Solid Speed Gear. Handle contains 8 drill points, sizes 4/64" to 11/64".

Hand and Breast Drill No. 5 $\frac{1}{2}$ B

SPEEDS—Two speeds, changed by turning the Shifter Knob marked "Fast" and "Slow."

SPINDLE—Lathe turned, runs in Ball Bearings. End runs in a hardened steel Cone bearing.

CHUCK—All Steel, with three hardened jaws for holding Round Shank Drills 0 to $\frac{3}{8}$ ".SIZE—14 $\frac{1}{2}$ " long. Net weight, 2 $\frac{1}{4}$ lbs.

NO DRILLS FURNISHED WITH THIS TOOL

"YANKEE"
Spiral Ratchet Screw-drivers

Right- and Left-hand and Rigid Adjustments



Regular Style

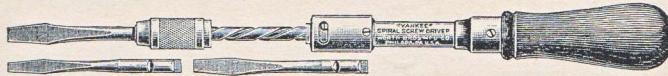
Pattern:

Length with Bit—Extended

Length with Bit—Closed

No. 30-A
Standard or
Medium
18 $\frac{1}{4}$ ".
13"

Right Hand Only and Rigid, for Driving Screws Only



No. 20

No. 1—Extreme length with bit in chuck, 10" closed or 14" extended.

No. 2—Extreme length with bit in chuck, 12" closed or 17" extended.

No. 3—Extreme length with bit in chuck, 13" closed or 19" extended.

No. 41—Automatic Push Drill



Just as "Yankee" Spiral Screw-drivers are the standard the world over, so "Yankee" Automatic Push Drill No. 41 is the preferred tool in its class.

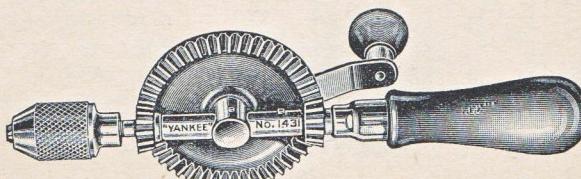
No. 44—Automatic Drill

With Seven Adjustable Tensions



Small drills, large drills, hard wood, soft wood—you can make the pressure exactly right with the adjustable tension of this remarkable Drill.

Drill points conveniently held in magazine handle, which in No. 44 only opens up toward chuck.



No. 1431—Single speed. Length, 9 $\frac{1}{2}$ ". Capacity, 9/32".

STANLEY "DEFIANCE" SCREW DRIVERS

These screw drivers have round steel blades, with the end in the handle squared, securely fastening them. A pin is riveted through the steel ferrule, handle and shank. Handles are fluted and stained red.

No. 70—Standard Blade and Tip



Blade length, $2\frac{1}{2}$ ", $7/32$ " dia.,
 $6\frac{1}{2}$ " overall.



18 ", $\frac{1}{2}$ " dia., $27\frac{1}{4}$ " overall.



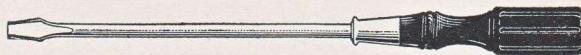
3 ", $7/32$ " dia., 8 " overall.



15 ", $7/16$ dia., $22\frac{3}{4}$ " overall.



4 ", $1/4$ " dia., 9 " overall.



12 ", $\frac{3}{8}$ " dia., 19 " overall.

10 ", $\frac{3}{8}$ " dia., 17 " overall.

5 ", $5/16$ " dia., $10\frac{1}{2}$ " overall.

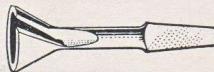


6 ", $5/16$ " dia., $11\frac{3}{4}$ " overall.



8 ", $\frac{3}{8}$ " dia., 15 " overall.

Dowel Sharpener

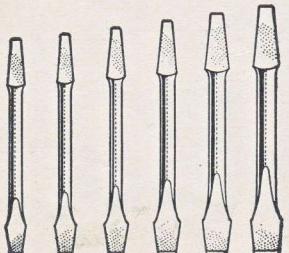


No. 22

Nickel Plated.

Screw Driver Bits

These Bits are forged from crucible steel, oil tempered and polished.



No. 26

- $3/16$ " Tip, $4\frac{1}{2}$ " long.
- $1/4$ " Tip, $4\frac{1}{2}$ " long.
- $5/16$ " Tip, $4\frac{3}{4}$ " long.
- $3/8$ " Tip, 5 " long.
- $1/2$ " Tip, 5 " long.
- $5/8$ " Tip, 5 " long.
- $3/4$ " Tip, 5 " long.

STANLEY TWO-FOOT STEEL SQUARES



Body—24x2 in.

Tongue—16 or 18x1½ in.

Brace, Octagon and Essex Board Measure and 100th Scale

No. 100—Polished

Graduated 1/32, 1/16, 1/12, 1/10, 1/8"

No. 100B—Blued

Brace and Essex Board Measure

No. 3B—Blued

Graduated 1/16, 1/12, 1/4"

No. 3—Polished



Iron body and steel screw—1¼" opening.

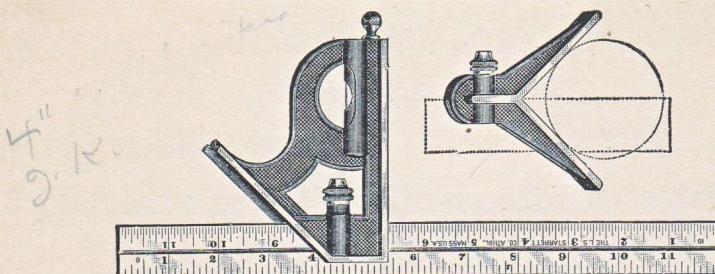
BENCH BRUSHES

Polished Round Hardwood Block

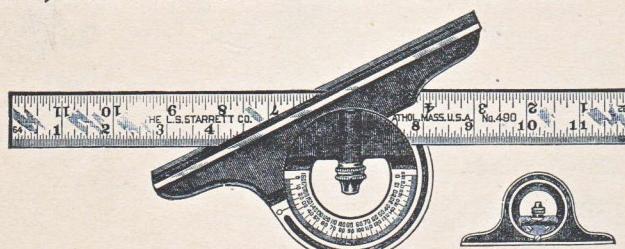


We carry bench brushes as shown in the illustration here. This is an all bristle brush and one that will give long wear. 14" long overall.

STARRETT COMBINATION SQUARES No. 11, With Hardened Blade



BEVEL PROTRACTORS No. 490, With Hardened Blade and Reversible Head



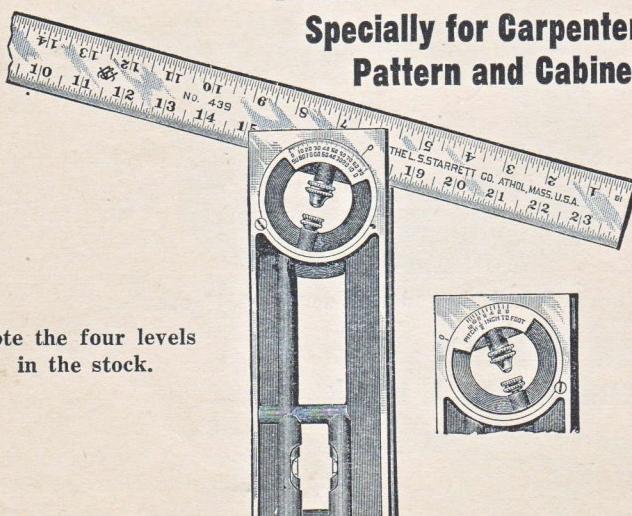
This tool is of the same general design as our No. 12 Protractor, with the additional feature of having the head extended both sides of the blade. This greatly increases the usefulness of the tool, as the same angles may be transferred from either side of the frame without resetting.

SIZES—9, 12, 18, 24 inch.

COMBINATION TOOL No. 439

Patented

**Specially for Carpenters, Builders,
Pattern and Cabinet Makers**

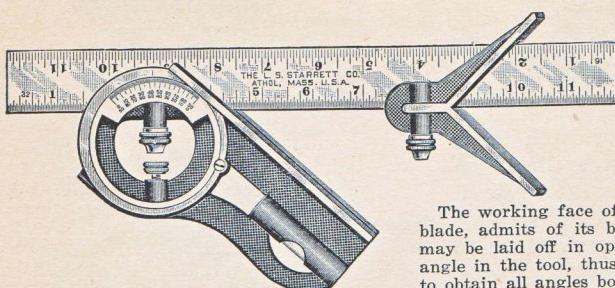


Note the four levels
in the stock.

Furnished with 18" or 24" Blade.

No. 10—Inclinometers

With Hardened Blade



This cut represents an inclinometer try square and bevel protractor combined.

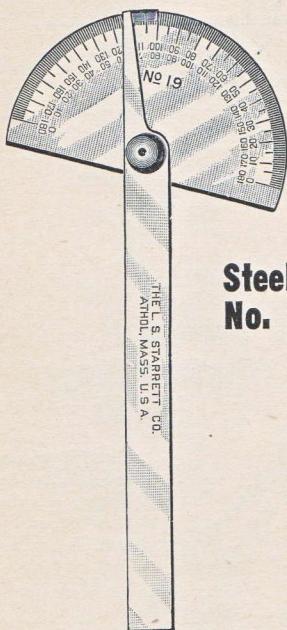
It consists of a stock and disc both slotted to receive the blade.

The blade attached to the graduated rotary disc may be secured at any angle from 0 to 90 degrees.

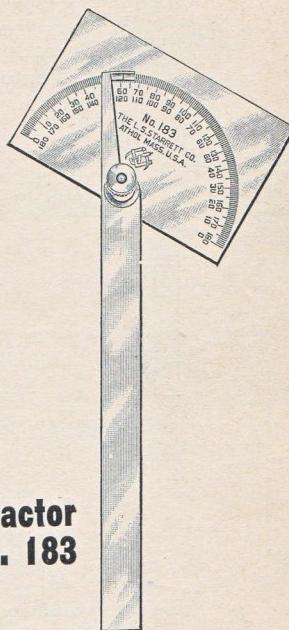
The working face of the stock, extending both sides of the blade, admits of its being reversed, so that the same angle may be laid off in opposite directions without changing the angle in the tool, thus requiring but $\frac{1}{4}$ of a graduated circle to obtain all angles both ways.

The blades are graduated in 8ths, 16ths, 32nds and 64ths.

Furnished with 12", 18" or 24" Blades.
Sent without center head unless otherwise ordered.



**Steel Protractor
No. 19**

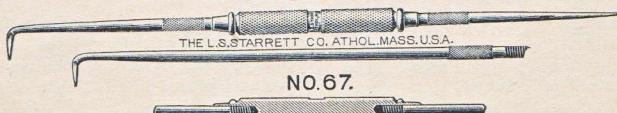


**Steel Protractor
No. 183**

Graduated in degrees from 0 to 180, both ways. The blade is 6" long, and by means of our patent lock joint is set firmly by a slight turn of the nut. The back of the tool is flat.

Similar to No. 19 but with rectangular head, giving four working faces, also two rows of figures reading both ways to show the complementary degrees. The blade is 6" long.

No. 67—Improved Scriber



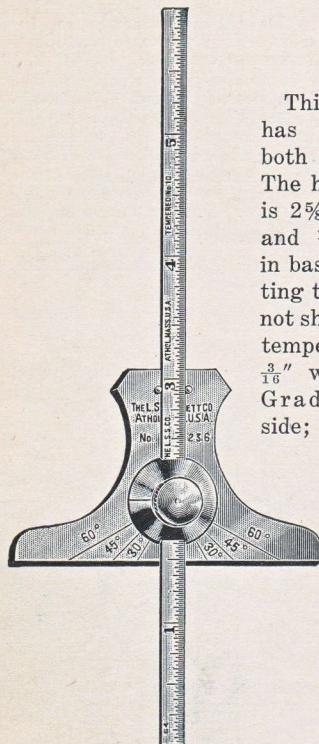
Length, with short, bent point, 9"; with long point, 12". All parts are interchangeable. The knurled sleeve is nickeled.

Combination Depth and Angle Gauge

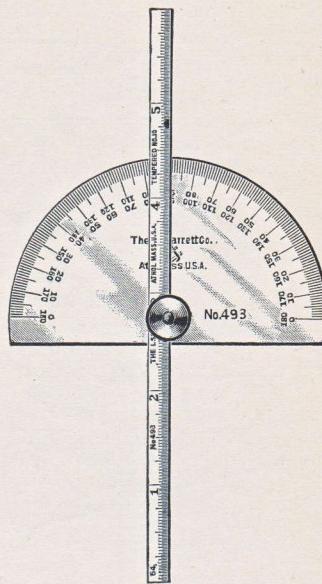
No. 236

Patented

This new depth gauge has degree lines on both sides of the head. The head of this gauge is $2\frac{5}{8}$ " across the base and $\frac{1}{8}$ " thick. Recess in base to facilitate setting to divisions on rule not shown in cut. Spring tempered rule used is $\frac{3}{16}$ " wide and 6" long. Graduated 32nds one side; other side 64ths.

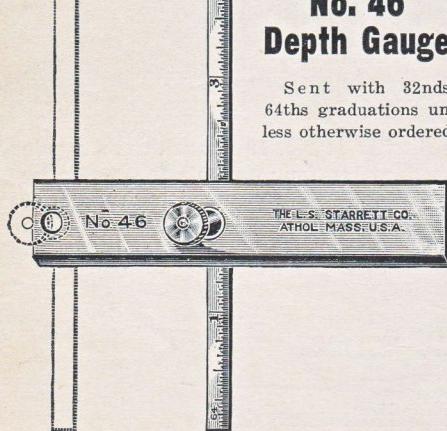


Protractor and Depth Gauge No. 493



No. 46 Depth Gauge

Sent with 32nds-
64ths graduations un-
less otherwise ordered.



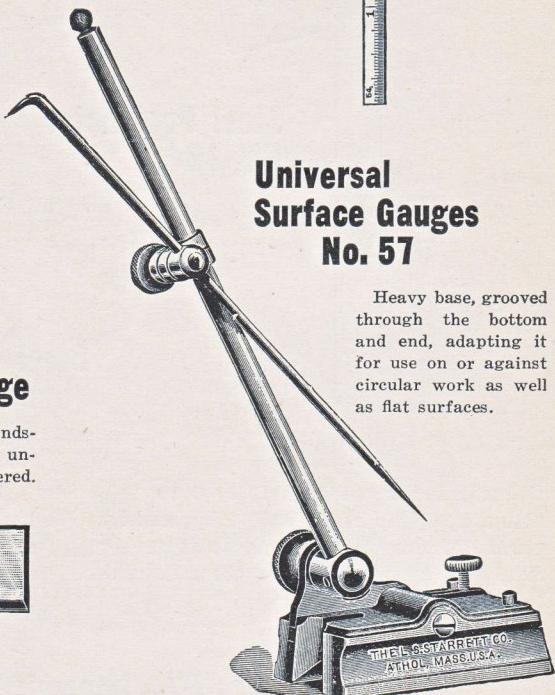
No. 46A—with $3\frac{1}{8}$ " stock and 4" scale.

No. 46B—with $3\frac{1}{2}$ " stock and 6" scale.

No. 46C—with 6" stock and 4" scale.

No. 46D—with 6" stock and 6" scale.

No. 46E—with 10" stock and 6" scale.



Universal Surface Gauges No. 57

Heavy base, grooved
through the bottom
and end, adapting it
for use on or against
circular work as well
as flat surfaces.

Length given for spindle includes height of
spindle and base except the 12" spindle with 57B
and the 18" with 57D, the depth of the base not
being included in the length of these two spindles.

No. 57A—3" base with 9" spindle.

No. 57B—3" base with 9 and 12" spindles.

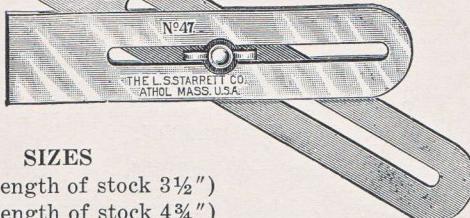
No. 57C—3 $\frac{3}{4}$ " base with 12" spindle.

No. 57D—3 $\frac{3}{4}$ " base with 12 and 18" spindles.

IMPROVED BEVELS

No. 47

Sliding "T" Bevels
Iron Handle, Nickel Plated

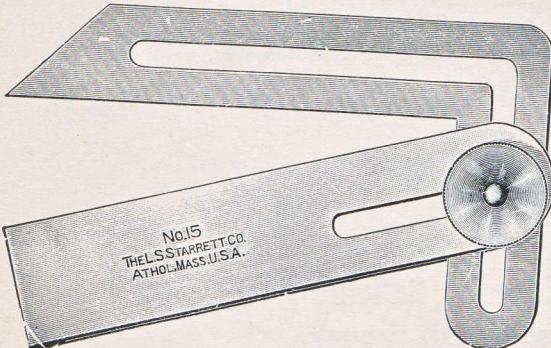


SIZES

- 6 inch (length of stock 3½")
- 9 inch (length of stock 4¾")
- 12 inch (length of stock 6")

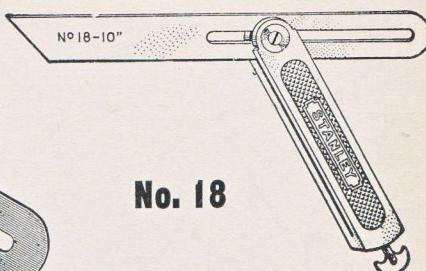
Universal Bevel

No. 15



No. 15 is made in one size only.
This bevel may be used with No.
193 Protractor.

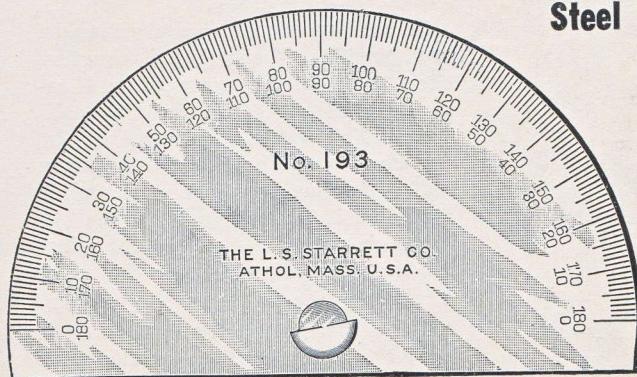
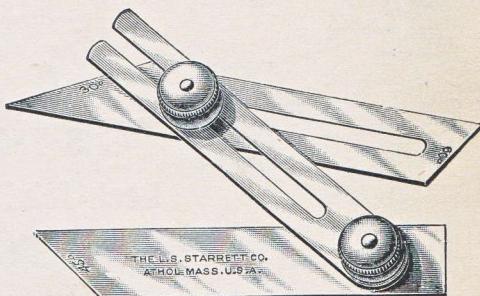
No. 18



- 6" Blade, 4¼" Handle
- 8" Blade, 5⅛" Handle
- 10" Blade, 6¼" Handle

Combination Bevels

No. 49

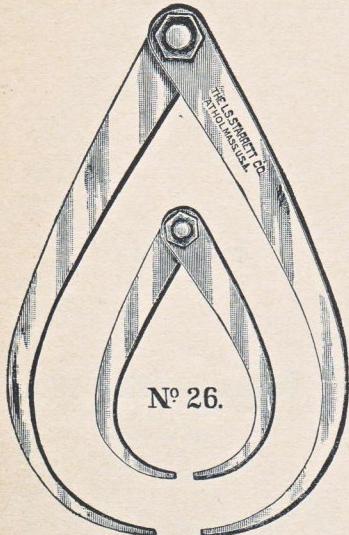


Steel Protractor

No. 193

Used for setting bevels No. 15, No. 47 and No. 49 at any desired angle, thus converting them into Bevel Protractors at slight cost.

STARRETT
Improved Firm-Joint Calipers
No. 26 and No. 27



SIZES

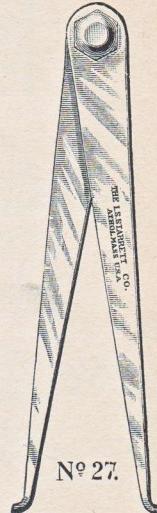
No. 26 and No. 27—3, 4, 5, 6, 8,
10, 12, 14, 16, 18, 20 and 24".

No. 26 (Only)—30 and 36".

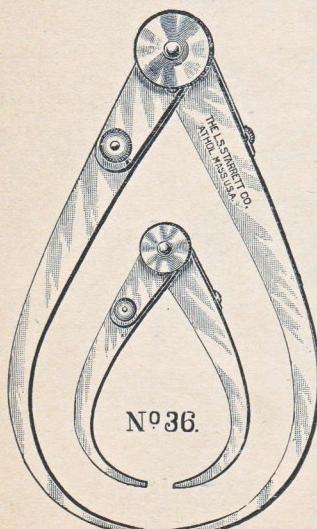
The No. 27 Inside Calipers are not
made larger than 24".

The above sizes refer to the length
of the calipers.

Their capacity is about one-third
greater than the size given; for exam-
ple, the 30" size will caliper 38", and
the 36" size will caliper 46" diameter.



STARRETT
Lock-Joint Transfer Calipers
No. 36 and No. 37



SIZES

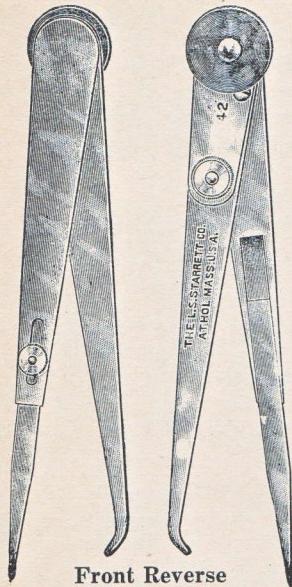
No. 36 and No. 37—4, 5, 6, 8, 10,
12, 14, 16, 18, 20, 24".

In addition to common use may be
used inside of chambered cavities,
over flanges, etc., removed and re-
placed without losing the size cali-
pered. This is done by loosening the
nut binding one arm to the auxiliary
leaf and swinging it out or in (while
the joint is locked) to clear the ob-
struction, then moving it back against
a stop where it will show the exact
size measured.

The sizes given refer to the length
of the calipers, but the outside ones
will caliper a cylinder 20 per cent
greater than their length, and the in-
side calipers will open nearly twice
their length.



**Lock-Joint
Hermaphrodite
Calipers**



Front Reverse

No. 42

With our adjustable point, lock-joint and sensitive adjustment. Reverse cut shows our adjustable joint while the front cut shows our lock-joint and sensitive adjustment. The sensitive adjustment is obtained by the knurled disc.

SIZES

4 - 6 - 8 - 10"



**Firm-Joint
Hermaphrodite
Calipers**

No. 41

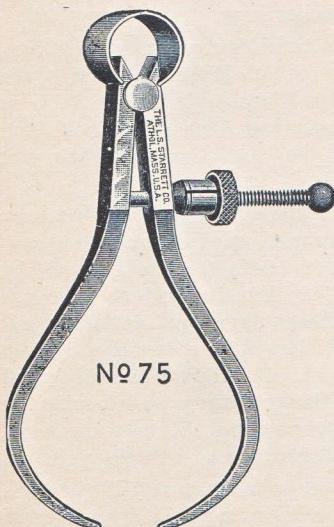
These Calipers have our adjustable point, as well as the improved firm-joint. This joint, with its smooth and uniform friction, is incomparably superior to the old style riveted joint.

SIZES

4 - 6 - 8 - 10"

**Starrett Spring
Calipers**

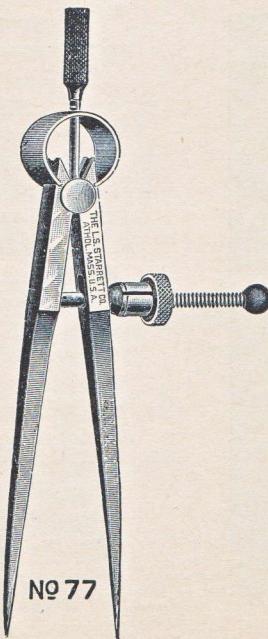
No. 75



SIZE—3, 4, 5, 6, 8".

**Starrett Spring
Dividers**

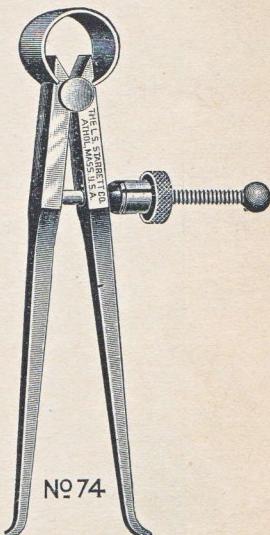
No. 77



SIZE—3, 4, 5, 6, 8".

**Starrett Inside
Spring Calipers**

No. 74



SIZE—3, 4, 5, 6, 8".

WING DIVIDERS

Forged Steel—Nickel Plated

No. 165

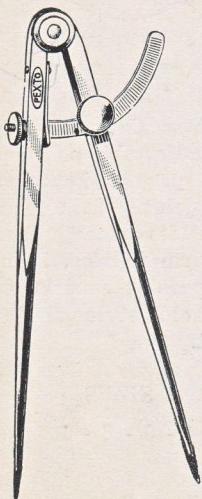
These Dividers are without question the finest and most attractive tools of their kind made. Forged from the highest grade of steel, the upper part of legs are perfectly square, the lower part having a long taper. Head is large, firm and symmetrical. Wings are knurled to hold special point which we put on thumb screw. All parts are highly polished and heavily nickel plated.

No. 165—6, 7, 8, 10, 12".

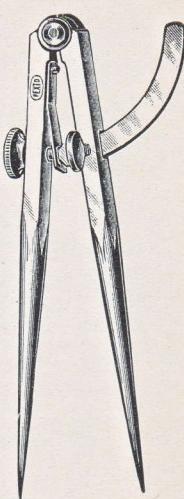
No. 35

These Dividers are of forged steel, well polished, and have brass joints. Most mechanics know the quality, style and finish of our dividers and prefer them to all other.

No. 35—5, 6, 7, 8, 9, 10, 12, 15, 18".



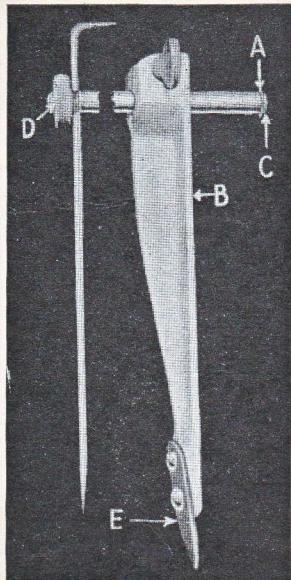
No. 165
Forged Steel
Nickel Plated



No. 35
Forged Steel
Polished

COMBINATION GAUGE

Fig. 1210



Aluminum body, steel beam and pin, each about seven inches long.

This tool is used for a number of purposes. First; as a Regular Gauge, the hardened-steel marking roller (A) is adapted for gauging lines either with the grain, across the grain, or upon the end grain of wood.

The body of the tool (B) being narrow, the tool can be used upon either a flat, concave, or convex surface. The end of the beam (C) being flat; is used as a Depth Gauge. The beam is reversible, when reversed the Scriber Gauge is brought into use as shown at (D) all P. M's. will see at a glance how this arrangement is useful for gauging lines over and beyond ribs, and other obstructions; also as a Surface Gauge.

The End Scriber shown at (E) is flush with the face of the tool, and, with the aid of a square edged board, is used for drawing lines across core boxes, etc.

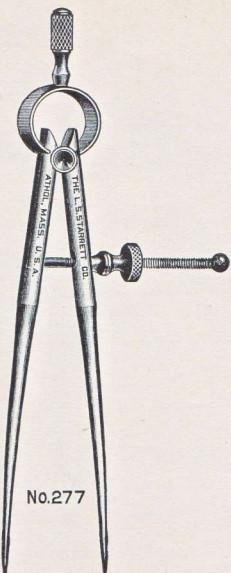
Many other uses will be suggested to the user of one of these tools.

Toolmakers' Dividers

No. 277

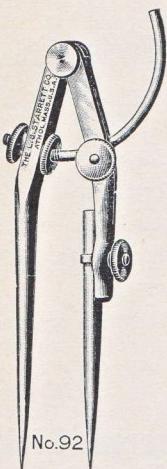
With
Round Legs

Made in sizes
2" 3" 4" 5" 6"



Dividers

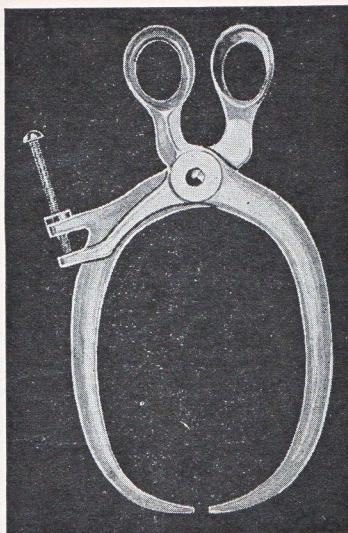
No. 92



The adjustable point may be instantly removed and a common pencil inserted in its place. The adjustable point is eccentric and may be loosened and rotated to make fine adjustments.

Made in sizes
6" 7" 8" 9"

Scissors Calipers



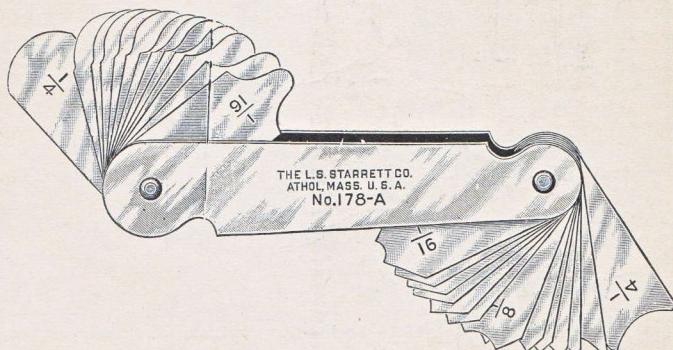
Used for measuring the thickness of patterns or castings where it is necessary to caliper over and beyond flanges or other obstructions, or for use in backing out patterns.

No. 1: Small size as illustrated, length about 8".

No. 2: Large size, length overall 11".

Fillet or Radius Gauges

No. 178A

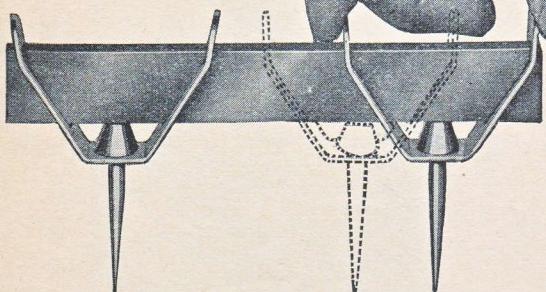


Size A has 30 leaves stamped to indicate radii by 64ths, from $1/32"$ to $1/4"$ (one-half) diametric size). Diameters are from $1/16"$ to $1/2"$, varying by 32nds.

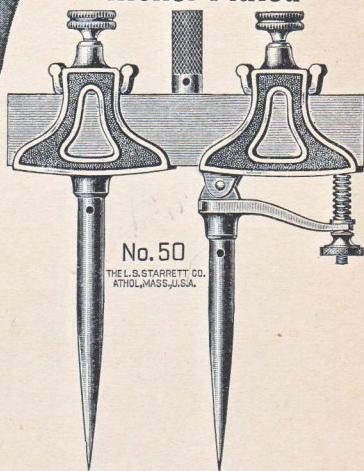
Size B is made with 32 leaves stamped to indicate radii by 64ths, from $17/64"$ to $1/2"$. Diameters are from $17/32"$ to $1"$, varying by 32nds.

Adnel Trammel Points No. 40

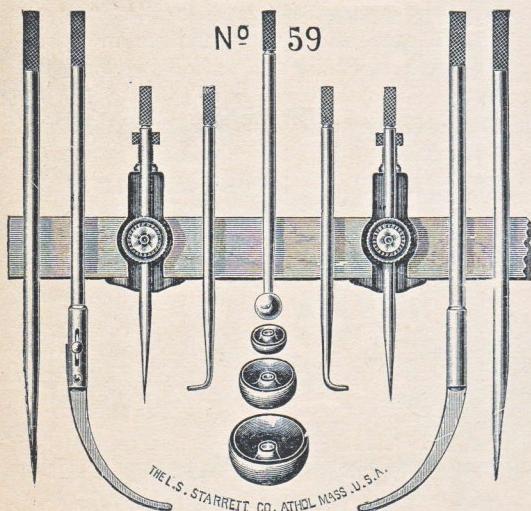
Quick acting, rigid and strong. Spring Steel Tops and tool steel points. Simple and accurate.



Improved Trammel Points No. 50 Nickel Plated



No. 59—Trammels

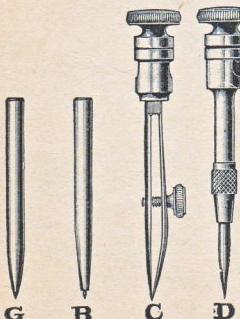


No. 50-A with 3" points adjustable.
No. 50-B with 3" points not adjustable.

No. 59—Parts

- No. 59A—Trammel Heads (with one pair of points).
- No. 59B—Balls and Holder.
- No. 59C—Small Caliper Legs.
- No. 59D—Large Caliper Legs.
- No. 59E—Large Divider Points.
- No. 59F—Set complete.
- No. 59A sent unless otherwise ordered.

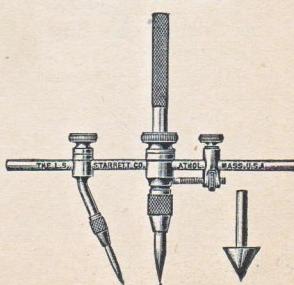
Universal Divider No. 89-A

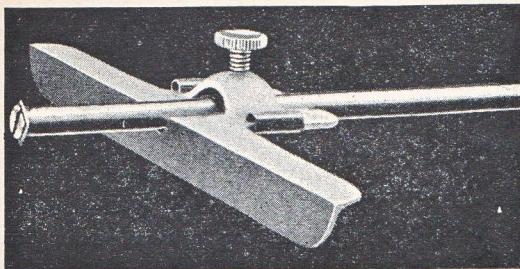


89A—Tool with 4" beam and cone center, as shown.

LIST OF ATTACHMENTS

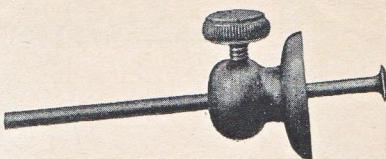
- | | |
|--|-------------------------------|
| 89B—Needle Points. | 89F—Coupling. |
| 89C—Pen Attachment. | 89G—Extra Steel Points. |
| 89D—Extra Straight Point and Socket. | 89H—Tool and all attachments. |
| 89E—Extra 13" beam to scribe 25" circle. | Case for No. 89A, extra. |
| | Case for No. 89H, extra. |



No. 400—Panel Gauge

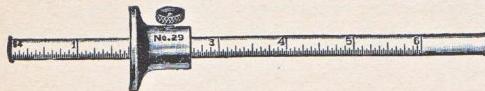
18" PANEL GAUGE

New improved style. Complete with steel rod 18" long, with tempered marker. Bearing face 7" long.

No. 401—Scratch Gauge

SMALL SCRATCH GAUGE

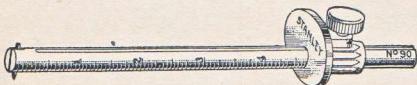
Made entirely of steel. Length of rod about 4½".

No. 29—Scratch Gauges

Made in sizes 5" and 6".

Marking—Nickel Plated

SINGLE BAR



No. 90—Metal Head, Pin Point.

Center Punches

No. 10

5/64" Tips, 4" long.

5/32" Tips, 4" long. 1/8" Tips, 4" long.

SQUARE HEAD, ROUND SHANK

Square head prevents rolling. Top of head and tip polished.



No. 11

2/32" Tips, 4" long. 3/32 Tips, 4" long.

5/64" Tips, 4" long. 4/32" Tips, 4" long.

No.

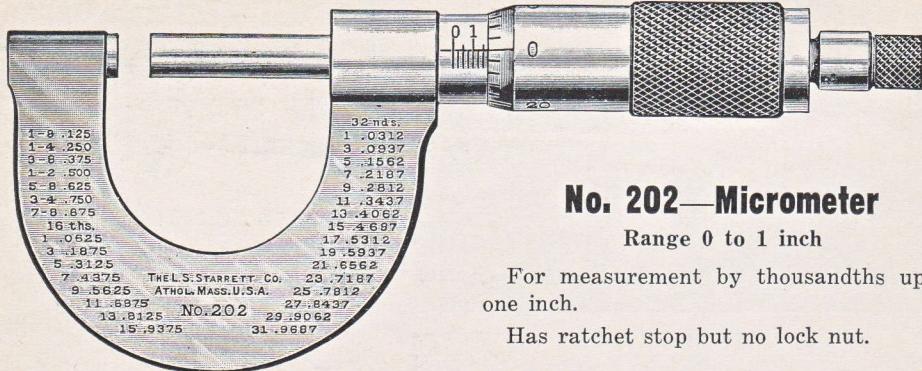
11 ¾

Tip
(Inches)

1/32
2/32
5/64
3/32
4/32
5/32

Length
(Inches)

4
4
4
4
4
4



No. 202—Micrometer

Range 0 to 1 inch

For measurement by thousandths up to one inch.

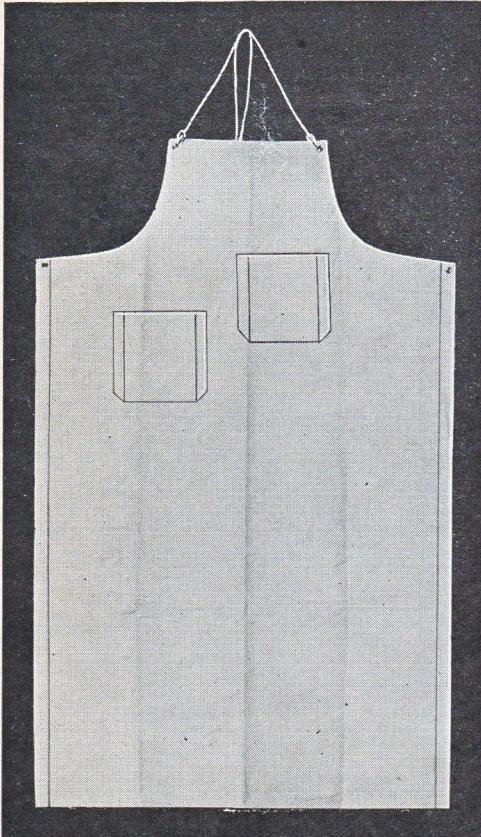
Has ratchet stop but no lock nut.

Handy Equivalent Tables

Made from Spring Steel

These Ready Reference Tables are but .019" thick, $1\frac{1}{4}$ " wide, and about 6" long. With the black markings and polished surface they are very distinct. Carried in the pocket or used around the bench they are invaluable to machinists, tool makers, steel workers, etc.

Patternmakers' Apron



No. 589
Decimal
Equivalents



THE L.S. STARRETT CO.
ATHOL, MASS. U.S.A.
DECIMAL
EQUIVALENTS

	TAP	DRILL	Screw	Drill
1/32	.015625	.03125	.024414	.024414
2/32	.03125	.0625	.048828	.048828
3/32	.046875	.078125	.064243	.064243
4/32	.0625	.109375	.089593	.089593
5/32	.078125	.125	.105625	.105625
6/32	.09375	.15625	.125	.125
7/32	.109375	.17875	.15625	.15625
8/32	.125	.203125	.1875	.1875
9/32	.140625	.21875	.203125	.203125
10/32	.15625	.234375	.21875	.21875
11/32	.171875	.250	.234375	.234375
12/32	.1875	.265625	.250	.250
13/32	.203125	.28125	.265625	.265625
14/32	.21875	.296875	.28125	.28125
15/32	.234375	.3125	.296875	.296875
16/32	.250	.328125	.3125	.3125
17/32	.265625	.34375	.328125	.328125
18/32	.28125	.359375	.34375	.34375
19/32	.296875	.375	.359375	.359375
20/32	.3125	.402344	.375	.375
21/32	.328125	.417875	.402344	.402344
22/32	.34375	.433406	.417875	.417875
23/32	.359375	.448938	.433406	.433406
24/32	.375	.464468	.448938	.448938
25/32	.390625	.479999	.464468	.464468
26/32	.40625	.495531	.479999	.479999
27/32	.421875	.511063	.495531	.495531
28/32	.4375	.526594	.511063	.511063
29/32	.453125	.542126	.526594	.526594
30/32	.46875	.557656	.542126	.542126
31/32	.484375	.573188	.557656	.557656
32/32	.500	.588720	.573188	.573188
33/32	.515625	.604252	.588720	.588720
34/32	.53125	.619784	.604252	.604252
35/32	.546875	.635316	.619784	.619784
36/32	.5625	.650848	.635316	.635316
37/32	.578125	.666380	.650848	.650848
38/32	.59375	.681912	.666380	.666380
39/32	.609375	.697444	.681912	.681912
40/32	.625	.712976	.697444	.697444
41/32	.640625	.728508	.712976	.712976
42/32	.65625	.744040	.728508	.728508
43/32	.671875	.759572	.744040	.744040
44/32	.6875	.775104	.759572	.759572
45/32	.703125	.790636	.775104	.775104
46/32	.71875	.806168	.790636	.790636
47/32	.734375	.821700	.806168	.806168
48/32	.750	.837232	.821700	.821700
49/32	.765625	.852764	.837232	.837232
50/32	.78125	.868296	.852764	.852764
51/32	.796875	.883828	.868296	.868296
52/32	.8125	.900360	.883828	.883828
53/32	.828125	.915892	.900360	.900360
54/32	.84375	.931424	.915892	.915892
55/32	.859375	.946956	.931424	.931424
56/32	.875	.962488	.946956	.946956
57/32	.890625	.978020	.962488	.962488
58/32	.90625	.993552	.978020	.978020
59/32	.921875	.100894	.993552	.993552
60/32	.9375	.102436	.100894	.100894
61/32	.953125	.103978	.102436	.102436
62/32	.96875	.105520	.103978	.103978
63/32	.984375	.107062	.105520	.105520
64/32	.1000	.108604	.107062	.107062

No. 590
Tap Drills for
Machine Screws



THE L.S. STARRETT CO.
ATHOL, MASS. U.S.A.
TAP DRILLS
FOR
MACHINE SCREW TAPS

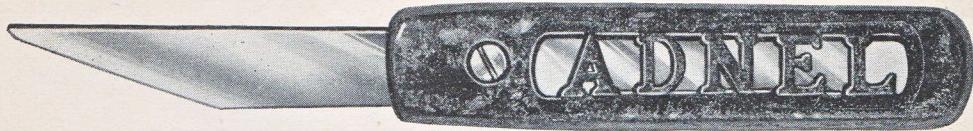
	TAP	DRILL	SCREW	DRILL
A	.015625	.03125	.024414	.024414
B	.03125	.0625	.048828	.048828
C	.046875	.078125	.064243	.064243
D	.0625	.109375	.089593	.089593
E	.078125	.125	.105625	.105625
F	.09375	.15625	.125	.125
G	.109375	.17875	.15625	.15625
H	.125	.203125	.1875	.1875
I	.140625	.21875	.203125	.203125
J	.15625	.234375	.21875	.21875
K	.171875	.250	.234375	.234375
L	.1875	.265625	.250	.250
M	.203125	.28125	.265625	.265625
N	.21875	.296875	.28125	.28125
O	.234375	.3125	.296875	.296875
P	.250	.328125	.3125	.3125
Q	.265625	.34375	.328125	.328125
R	.28125	.359375	.34375	.34375
S	.296875	.375	.359375	.359375
T	.3125	.402344	.375	.375
U	.328125	.417875	.402344	.402344
V	.34375	.433406	.417875	.417875
W	.359375	.448938	.433406	.433406
X	.375	.464468	.448938	.448938
Y	.390625	.479999	.464468	.464468
Z	.40625	.495531	.479999	.479999

No. 591
Drill Size Tables



THE L.S. STARRETT CO.
ATHOL, MASS. U.S.A.
DRILL SIZE TABLE

	LETTER SIZES	NUMBER SIZES
1	A .234	1 .02
2	B .393	2 .393
3	C .426	3 .426
4	D .460	4 .460
5	E .493	5 .493
6	F .526	6 .526
7	G .559	7 .559
8	H .592	8 .592
9	I .625	9 .625
10	J .658	10 .658
11	K .691	11 .691
12	L .724	12 .724
13	M .757	13 .757
14	N .790	14 .790
15	O .823	15 .823
16	P .856	16 .856
17	Q .889	17 .889
18	R .921	18 .921
19	S .954	19 .954
20	T .987	20 .987
21	U .1020	21 .1020
22	V .1053	22 .1053
23	W .1086	23 .1086
24	X .1119	24 .1119
25	Y .1152	25 .1152
26	Z .1185	26 .1185

No. B-1—NEW IMPROVED STYLE

The specifications of these knives are: 9/16"x6½", blades of best tool steel. Aluminum handle. Weight of complete knife only two ounces.

Extension Blades

BEVEL

**EXTENSION HANDLE No. 0**

No. 00—Handle takes No. 00½ wide blades.....	3½"
No. 0—Handle takes No. 2 wide blades.....	4¼"

Patternmakers' Blades

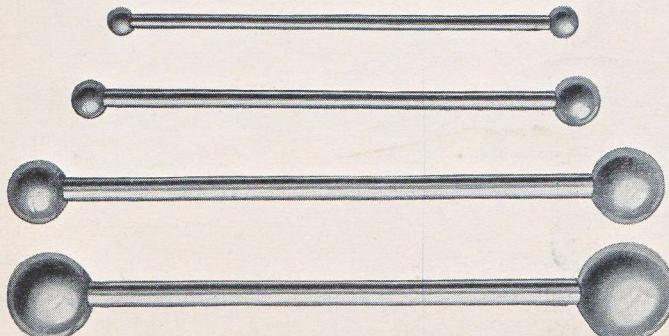
No. 0 Blade, ½" wide, 6" long.

No. 1 Blade, ½" wide, 8" long.

No. 2 Blade, ⅝" wide, 9" long.

**PATTERNMAKERS' HANDLES**

No. 1 Handle for Nos. 0 and 1 Blades, full length of handle.....	4½"
No. 2 Handle for No. 2 Blades, full length of handle.....	4¾"

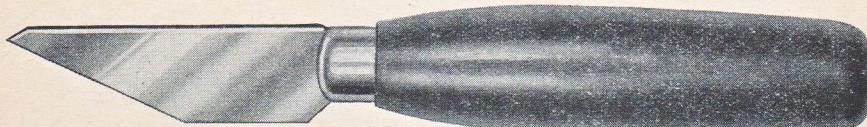
**Fillet Tools**

No. 1, with ¼" and 5/16" balls.
No. 2, with ⅜" and ½" balls.
No. 3, with ⅝" and ¾" balls.
No. 4, with ⅞" and 1" balls.

SLOYD PATTERNMAKERS' KNIVES



No. 1½—SLOYD, Blade 3" long.

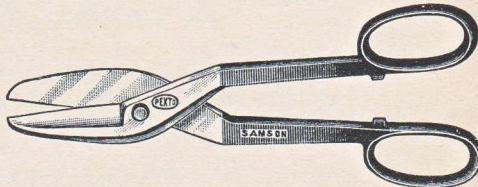


No. 3M—STENCIL AND WOOD BLOCK KNIFE, Blade 2½" long.

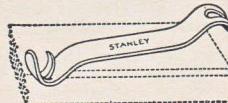
Solid Forged Steel Snips

These Snips were designed to meet the demand for a medium priced tool for general use and are fully guaranteed. The blades are polished and handles finished in red.

4" 3½" 3" 2½"



Cornering Tools

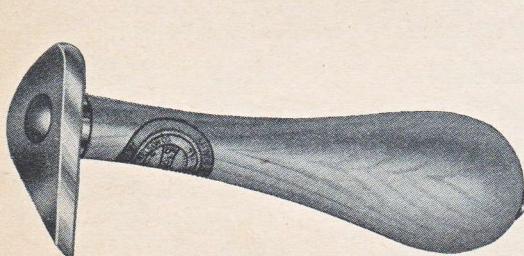


These cornering tools have a different size cutter at each end and their form is such that no depth gauge is required. 5½" long.

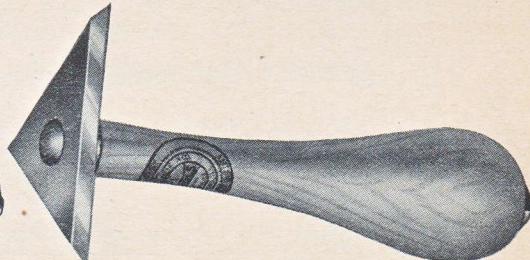
No. 29—3/16 and ¼" cutter.

No. 28—1/16 and ⅛" cutter.

Wood Scrapers



No. 11



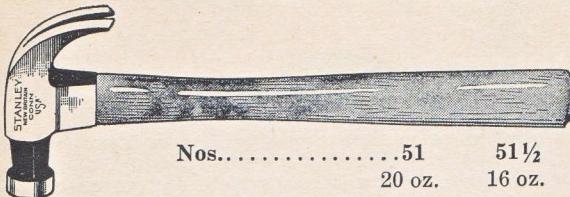
No. 12

The above scrapers will be found handy for removing surplus glue after glueing.

No. 11 scraper is 5" overall, with 2" cutting edge.

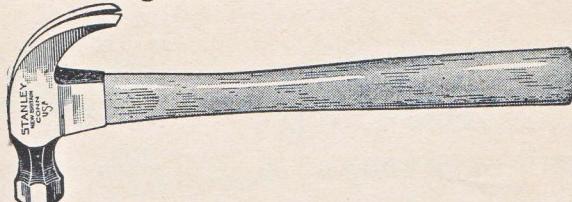
No. 12 scraper is 5" overall with 2¼" cutting edge.

**Curved Claw Hammer
Bell Face, Round Neck and Poll**



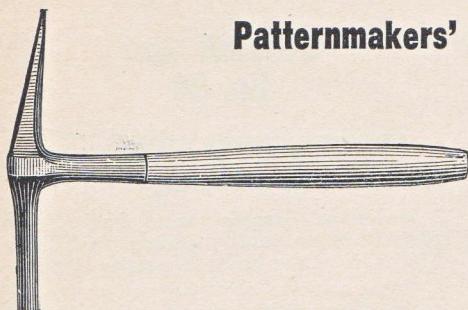
Nos.....	51	51½	52	52½	53	54
	20 oz.	16 oz.	13 oz.	10 oz.	7 oz.	5 oz.

Bell Face, Octagonal Neck and Poll, Full Polished



Nos.....	15	15	15
	20 oz.	16 oz.	13 oz.

Patternmakers' Light Hammers



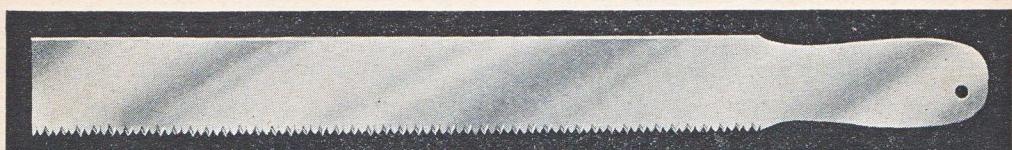
No. 121—Heavy, size of face, $\frac{1}{2}$.

Maydole Patternmakers' (Long Head)



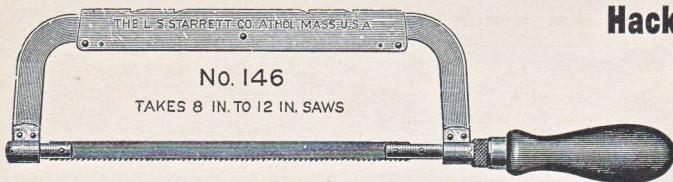
No. 122M

Patternmakers' Feather Tooth Saw



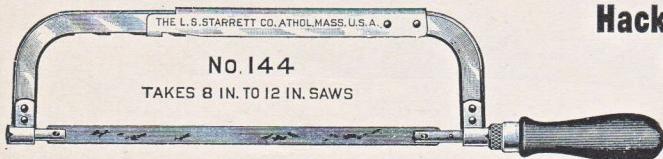
No. 33

This saw is flexible and will be found very handy on flat work. The teeth have no set and therefore will make a very smooth cut.



Hack Saw Frame No. 146

This is, we believe, a better frame for the price than any other made. The stock is wider and more rigid than commonly used and cannot be cramped when saws are tightened up, and will not tremble when used. It is well made with our improved adjustable back and will take in 8, 9, 10, 11 and 12 inch saws, which may be set to cut in any one of four directions, and tightened by simply turning the handle. Polished and nickel plated.

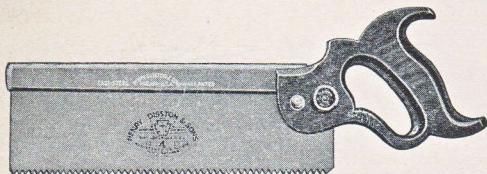


Hack Saw Frame No. 144

This frame is nickel-plated, dull finish. It is well made, with our improved adjustable back, and will take in 8, 9, 10, 11 and 12 inch saws, which may be set to cut in any one of four directions, and tightened by simply turning the handle.

Disston Back Saws

PERFECT IN WORKMANSHIP AND
TRUE IN CUTTING

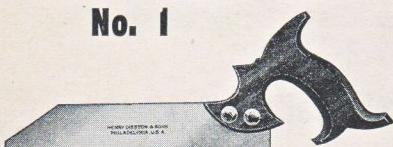


CRUCIBLE STEEL BACK SAWS

No. 4—Apple handle, polished edge; brass screws, blued back. Made with Rip Teeth when specially ordered at the same price.

Patternmakers' Saw

No. 1



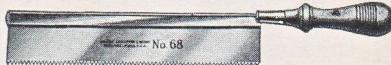
Plain Apple handle; extra quality.

Henry Disston Saw

This is the original Henry Disston Saw — the one upon which he built his early reputation.

Crucible Steel, grained blade, warranted; Beech handle, full polished brass screws.

Dovetail Saw No. 68



Polished handle, steel back, brass plated; extra quality spring steel blade, 1½" wide under back, 26 gauge, 17 points.

Same pattern saw, known as No. 69, made for cutting brass and copper in sheets or tubes. No. 70 has same style handle as Patternmakers'.

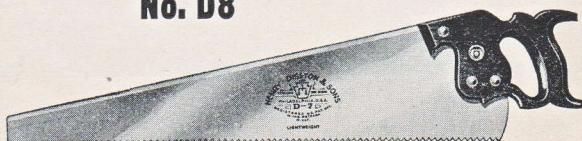
Keyhole Saw and Pad No. 5

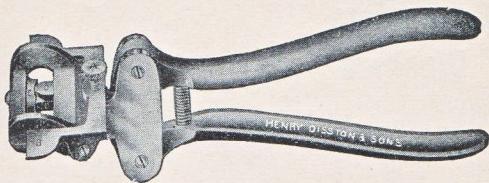


This is an inexpensive and convenient combination of Keyhole Saw, Saw Pad and Screw Driver.

No. 10 is made with special adjustment acting on edge of blade.

No. D8



No. 28—Disston "Triumph" Saw Set

When ordering a saw set give number of points on saw to be set.

Disston Saw Files

The following will be valuable to those who want to know the proper size file for sharpening rip and cross-cut saws:

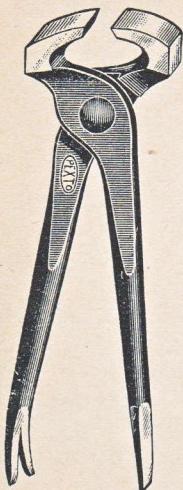
3	3½	4	point cross-cut saws, use 7-inch regular taper.
	4½	5	5½ point cross-cut saws, use 6-inch regular taper.
6	7	8	9 point cross-cut saws, use 4½-inch regular taper.
	10	11	12 point cross-cut saws, use 5½-inch slim taper.
4½	5	5½	6 point rip saws, use 4½-inch taper.
			4 point rip saws and coarser, use 6-inch regular taper.

Patternmakers' Portable Tool Case**Style No. 43—Two Sizes**

A portable Tool Case that meets the requirements of pattern makers, cabinet makers or machinists who carry a 24-inch scale. It is substantially constructed and as light as possible without sacrifice of strength. Covered with the best imitation seal grain leather and fitted with nickeled trimmings and a comfortable re-inforced leather handle. Four top drawers and top compartments are felt lined. A good strong lock securely locks all compartments. Front lid locks automatically and slides under the bottom drawer.



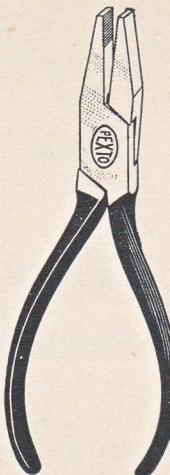
Style No.	Length in.	Drawers Inside	Inside Drawer Ht.	Top Compartment					No. 43—26x13½x8½"
				Depth in.	1st in.	2nd in.	3rd in.	4th in.	5th in.
43	11½ and 24¼	6½	1	1	1½	1½	3	25x7½x3½	No. 44—31x13½x8½"
44	13¾ and 29	6½	1	1	1½	1½	3	30x7½x3½	

PINCHERS, NIPPERS and PLIERS**Carpenters'
Pinchers****No. 49**

Forged Steel, Hammer Head Pattern. Full polished head, as shown and polished screw driver and claw ends. Handles in smooth permanent black finish.

For style and finish, combined with quality, this Pincher has no superior and few equals.

6, 7, 8, 9, 10, 12"

**Flat-Nose
Pliers
Lap-Joint
No. 200**

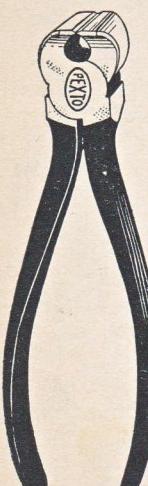
**Full Polished Head
Blued Handles**

This Plier is high-grade in every respect and equal or superior to any other Lap-Joint, Flat-Nose Plier made. It is used by practically all classes of mechanics and in the household as well.

Inches 3	3 1/2	4
Inches 4 1/2	5	5 1/2
Inches 6	7	8

**End Cutting
Nippers No. 72**

Machinists' End-Cutting
Nippers
Gun Barrel Handles
Head Full Polished



This is a very high-grade tool and is unequaled for fine work in the hands of machinists or other careful tool users. The wide flare and special milling out of the jaws are an advantage to the expert user, but the Plier should not be subjected to careless or abusive treatment.

Cutting Jaws, width inches
Inches 4 4 1/2 5
Jaw in. 3/4 3/4 15/16
Inches 5 1/2 6 8
Jaw in. 1 1-1/16 1 1/8

**Round-Nose
Pliers
Lap-Joint
No. 250**

**Blued Handles
Full Polished Head**

This Plier is used in the same way as No. 25. In all the fine points of plier-quality it is equal or superior to any other Round-Nose, Lap-Joint Plier made.

Inches 3	3 1/2	4
Inches 4 1/2	5	5 1/2
Inches 6	7	8

Arkansas Bench Stones

HARD or SOFT



Number	4	5	6	7
Length, about	4"	5"	6"	7"
Width, about	2"	2"	2"	2"
Thickness, about	3/4-1"	3/4-1"	3/4-1"	3/4-1"

Washita Bench Stones

LILY WHITE



Number	4	5	6	7
Length, about	4"	5"	6"	7"
Width	2"	2"	2"	2"
Thickness	3/4-1"	3/4-1"	3/4-1"	3/4-1"

India Bench Stones

Number	MB6	MB8
Length	6"	8"
Width	2"	2"
Thickness	1"	1"

India Combination Stones

Number	1B6	1B8
Length	6"	8"
Width	2"	2"
Thickness	1"	1"

CARBORUNDUM STONES

Combination Bench



Number	108	109
Length	8"	6"
Width	2"	2"
Thickness	1"	1"

Arkansas Round Edge Slips

HARD or SOFT



Number	3	4	5
Length, about	3"	4"	5"
Width	1 3/4 - 2"	1 3/4 - 2"	1 3/4 - 2"
Back Thickness	1/4 - 3/8 "	3/8 - 1/2 "	3/8 - 1/2 "
Edge Thickness	1/6 - 1/8 "	1/8 - 3/16 "	1/8 - 1/4 "

Washita Round Edge Slips

LILY WHITE



No.	Size About
LS 3	3 x 1 3/4 - 2 x 3/8 - 1/2 x 1/8 - 1/4 "
LS 4	4 x 1 3/4 - 2 x 3/8 - 1/2 x 1/8 - 1/4 "
LS 5	5 x 1 3/4 - 2 x 3/8 - 1/2 x 1/8 - 1/4 "

India Round Edge Slips



Coarse Numbers	Medium Numbers	Fine Numbers	Length	Width	Back	Edge
CS 14	MS 14	FS 14	4"	1"	7/16"	3/16"
CS 15	MS 15	FS 15	5"	1"	5/16"	3/32"
CS 24	MS 24	FS 24	4 1/2"	1 3/4"	1/4"	1/16"
CS 34	MS 34	FS 34	4 1/2"	1 3/4"	3/8"	1/8"
CS 44	MS 44	FS 44	4 1/2"	1 3/4"	1/2"	1/8"
CS 54	MS 54	FS 54	4 1/2"	2 1/8"	5/8"	5/16"
.....	MS 66	FS 66	6"	2 1/4"	3/4"	3/8"

CARBORUNDUM BRAND SLIP STONES

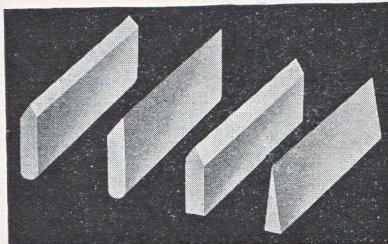


- No. 174—Fine, 6 x $2\frac{1}{4}$ x $\frac{3}{4}$ - $\frac{3}{8}$ "
 No. 175—Medium, 6 x $2\frac{1}{4}$ x $\frac{3}{4}$ - $\frac{3}{8}$ "
 No. 176—Coarse, 6 x $2\frac{1}{4}$ x $\frac{3}{4}$ - $\frac{3}{8}$ "
 No. 177—Fine, 4 $\frac{1}{2}$ x $1\frac{3}{4}$ x $\frac{1}{4}$ - $\frac{1}{16}$ "
 No. 178—Medium, 4 $\frac{1}{2}$ x $1\frac{3}{4}$ x $\frac{1}{4}$ - $\frac{1}{16}$ "

- No. 179—Coarse, 4 $\frac{1}{2}$ x $1\frac{3}{4}$ x $\frac{1}{4}$ - $\frac{1}{16}$ "
 No. 180—Fine, 4 $\frac{1}{2}$ x $2\frac{1}{8}$ x $\frac{5}{8}$ - $\frac{5}{16}$ "
 No. 181—Medium, 4 $\frac{1}{2}$ x $2\frac{1}{8}$ x $\frac{5}{8}$ - $\frac{5}{16}$ "
 No. 182—Coarse, 4 $\frac{1}{2}$ x $2\frac{1}{8}$ x $\frac{5}{8}$ - $\frac{5}{16}$ "
 No. 183—Fine, 4 $\frac{1}{2}$ x $1\frac{3}{4}$ x $\frac{1}{2}$ - $\frac{3}{16}$ "
 No. 184—Medium, 4 $\frac{1}{2}$ x $1\frac{3}{4}$ x $\frac{1}{2}$ - $\frac{3}{16}$ "
 No. 185—Coarse, 4 $\frac{1}{2}$ x $1\frac{3}{4}$ x $\frac{1}{2}$ - $\frac{3}{16}$ "
 No. 186—Fine, 4 x1 x $\frac{7}{16}$ - $\frac{3}{16}$ "
 No. 187—Medium, 4 x1 x $\frac{7}{16}$ - $\frac{3}{16}$ "
 No. 189—Coarse, 4 x1 x $\frac{7}{16}$ - $\frac{3}{16}$ "

Arkansas Carving Tool Slips

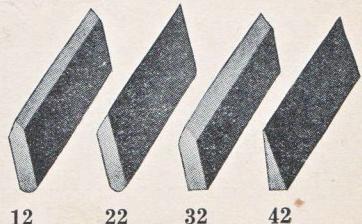
No.	Size in Inches
AS12	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$
AS22	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$
AS32	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$
AS42	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$



12 22 32 42

India Carving Tool Slips

No.	Size in Inches
MS12	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$
MS22	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$
MS32	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$
MS42	2 $\frac{1}{4}$ x $\frac{7}{8}$ x $\frac{3}{16}$



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